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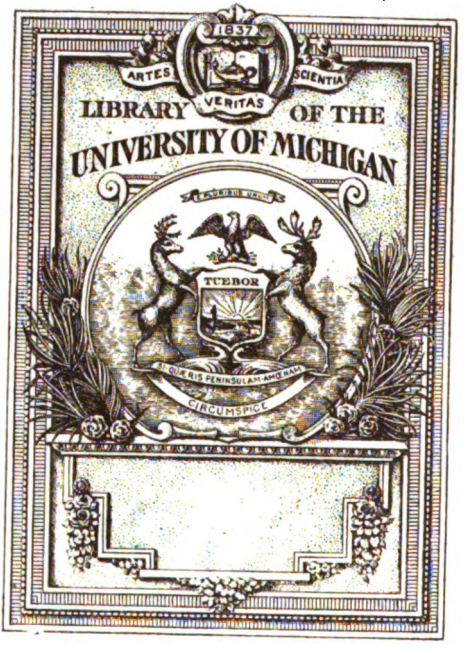
CITY OF SPRINGFIELD



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Commonwealth of Massachusetts

MUNICIPAL REGISTER

OF THE

CITY OF SPRINGFIELD

FOR

—1918—

CONTAINING

CITY OFFICERS AND COMMITTEES, MAYOR'S ADDRESS, REPORTS OF THE VARIOUS OFFICERS AND COMMITTEES; ALSO, THE RECEIPTS AND EXPENDITURES FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917.

PRESS OF
SPRINGFIELD PRINTING AND BINDING COMPANY,
SPRINGFIELD, MASS.
1918.

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CITY OFFICERS

FOR 1918

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CITY OFFICERS FOR 1918

Mayor

FRANK E. STACY

Aldermen

HENRY H. CASWELL, President
Ward 1: JOHN J. LESTER
Ward 2: EDWIN F. LEONARD
Ward 3: NELSON W. HASKELL
Ward 4: CHARLES A. ALLBE
Ward 5: JAMES F. WALLS
Ward 6: MELVIN D. SOUTHWORTH
Ward 7: HENRY H. CASWELL
Ward 8: FRED A. ELDRED
ELIJAH A. NEWELL, Clerk

Common Councilmen

CHRISTOPHER G. SIMPSON, President
Ward 1: C. BURTON GIBBS, EMILE J. ERARD
Ward 2: WILLIAM H. GRADY, JOHN R. DOYLE, JOHN A. FITZGERALD
Ward 3: AMBROSE H. REYNOLDS, HAROLD P. SMALL
Ward 4: ARCHER R. SIMPSON, JAMES P. SMITH
Ward 5: SETH H. BARLOW, CHRISTOPHER G. SIMPSON
Ward 6: GEORGE L. FENN, CLIFFORD D. CASTLE
Ward 7: ARTHUR G. TAYLOR, FREDERICK KATTLER
Ward 8: VICTOR BENGLE, ARTHUR ALFRED BETH, GEORGE H. DECKER
GEORGE J. CLARK, Clerk

STANDING COMMITTEES OF THE CITY COUNCIL.

COMMITTEES OF THE BOARD OF ALDERMEN

Enrollment—Aldermen Leonard, Southworth and Caswell.
Elections and Returns—Aldermen Allbe, Lester and Southworth.
Ordinances—Aldermen Haskell, Eldred and Walls.
Poles and Wires—Aldermen Lester, Leonard and Allbe.
Itinerant Venders' Licenses—The Mayor and Aldermen Allbe and Eldred.
State and Military Aid—The Mayor and Aldermen Haskell and Walls.
Rules of the Road—Aldermen Haskell, Eldred and Allbe.

COMMITTEES OF THE COMMON COUNCIL

Ordinances—Councilmen Castle, Fenn and Reynolds.
Enrollment—Councilmen Decker, Bengle and Fitzgerald.
Elections and Returns—Councilmen Small, Kattler and Archer R. Simpson.

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JOINT STANDING COMMITTEES.

Finance—The Mayor, Alderman Southworth, the President of the Common Council, and Councilmen Taylor and Doyle.

City Property—Aldermen Leonard and Walls, Councilmen Beth, Erard and Grady.

Fire Department—Aldermen Allbe and Haskell, Councilmen Decker, Fenn and Kattler.

Pauper Department—Aldermen Haskell and Walls, Councilmen Archer R. Simpson, Bengle and Fitzgerald.

Printing—The Mayor, President of the Common Council and Councilman Gibbs.

Board on Claims—The Mayor, Alderman Haskell and the President of the Common Council.

Supervisors of the Department of Streets and Engineering—The Mayor, Alderman Lester and Councilman Barlow.

Firearms—Aldermen Leonard and Allbe, Councilmen Smith, Castle and Fitzgerald.

Revision of Ordinances—Aldermen Haskell and Allbe, Councilmen Gibbs, Decker and Archer R. Simpson.

Mayor's Messages—Aldermen Caswell and Eldred, Councilmen Smith, Castle and Reynolds.

City Realty—Aldermen Haskell and Eldred, Councilmen Small, Kattler and Bengle.

Signs—Alderman Haskell, Councilmen Gibbs and Fenn.

Municipal Market—Alderman Eldred, Councilmen Taylor and Reynolds.

CITY CLERK—Elijah A. Newell.

ASSISTANT CITY CLERK—Clifford F. Smith.

CLERICAL ASSISTANTS—Cora B. Haskell, Carrie M. Riley, Ida M. Sword, Agnes P. Sheehan, Alice G. Weymouth, Doris Lampson.

CITY TREASURER—Eliphalet T. Tifft.

TREASURER'S DEPUTY—John P. Bishop.

CLERICAL ASSISTANTS—George W. Rice, Jr., Margaret E. McCaughan, Mildred J. Ward, Gertrude F. Little.

CITY AUDITOR—William G. McIntyre.

DEPUTY CITY AUDITOR—Clifford E. Cook.

CLERICAL ASSISTANTS—Edward M. Dale, Alice E. Hathaway, Isabelle Hicks, Gertrude Rowland, Helen V. Chase, May Taylor.

CITY COLLECTOR—Charles A. Frazer.

COLLECTOR'S CLERK—Ralph L. Munn.

CLERICAL ASSISTANTS—Flora S. Allbe, Hazel M. Berard, Rena E. Bradley, Frederic W. Day, Leone C. Johnson, May G. Tyning, Marion Wheelock, A. Elizabeth Winslow.

ASSESSORS—Albert C. Lane, George B. Smith, William E. Sanderson.

ASSISTANT ASSESSORS—Charles E. Murray, John W. Holton, Arthur S. Burt, William J. Murphy, Bernal H. Adams, Charles J. McMorrow,

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James J. Griffin, John W. Culver, Albert P. Eaton, Patrick E. Granfield, Samuel F. Brown and Giovanni Romano.

CLERICAL ASSISTANTS—Catherine T. Leonard, Mary R. Smith, Mabel C. Bemis, A. Evelyn Jewell, Minnie L. Barrett, Beuna V. Barrett.

OVERSEERS OF THE POOR—The Mayor, Dr. William J. Leonard, Arthur A. Call, Henry P. Norris, William R. Thacker.

AGENT—Edward I. White.

CLERK AND BOOKKEEPER—Jennie S. Lombard.

CLERICAL ASSISTANTS—Mary M. Doubleday, Sarah D. Beal.

WELFARE NURSE—Mary D. Otis.

SUPERINTENDENT OF ALMSHOUSE—Lyman W. Sexton.

CITY PHYSICIAN—Dr. William J. Leonard.

CITY SOLICITOR—Charles H. Beckwith.

ASSISTANT CITY SOLICITOR—Raymond A. Bidwell.

CITY PROSECUTING ATTORNEY—Josiah Dearborn.

MAYOR'S CLERK—Elizabeth H. Clark.

SUPERINTENDENT OF PUBLIC BUILDINGS—Hiram L. Dorman.

MESSENGER—James H. Lay.

SUPERINTENDENT OF THE DEPARTMENT OF STREETS AND ENGINEERING—

DEPUTY SUPERINTENDENT OF STREETS—Arthur H. Woodward.

DEPUTY SUPERINTENDENT OF SEWERS—Howard O. Buck.

DEPUTY SUPERINTENDENT OF STREET LIGHTING—William E. Hodge.

DEPUTY CITY ENGINEER—Charles M. Slocum.

CHIEF CLERK AND BOOKKEEPER—Charles G. Neidel.

BOARD OF HEALTH—Dr. T. F. Rearden, Chairman, Dr. Edgar H. Guild, Health Physician, and Philip V. Erard.

AGENT AND CLERK OF THE BOARD OF HEALTH—William L. Young.

CHIEF CLERK—Grace E. Warren.

OFFICE CLERKS—Mary E. MacDonnell, Anna C. O'Connell.

SANITARY INSPECTORS—Jacob R. Sackett, Wm. J. Hassett, Henry Wright, Jr., Alger P. Blaine, Wm. F. Boyle and Daniel J. Mahoney.

SMOKE INSPECTOR—Dustin L. Tice.

SUPERINTENDENT OF SCHOOLS—James H. Van Sickle.

SUPERINTENDENT'S CLERK—Fred L. Ward.

SCHOOL COMMITTEE—The Mayor; at large, Newton M. Hall; Ward One, Wayland V. James; Ward Two, Henry L. Hirsch; Ward Three, Ralph B. Ober; Ward Four, Edward M. Porter; Ward Five, Florence Clark; Ward Six, Franklin A. Latimer; Ward Seven, George H. Foss; Ward Eight, George H. Howard.

ATTENDANCE OFFICER—John A. Parker.

ASSISTANT ATTENDANCE OFFICERS—Harry A. Killmer, Burdette R. Madison (leave of absence), Leonard W. Knight and Harry E. Handy.

SEALER OF WEIGHTS AND MEASURES—James L. Bowen.

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DEPUTY SEALERS OF WEIGHTS AND MEASURES—Ralph H. O'Malley, Charles B. Kingsbury.

INSPECTOR OF MILK—Stephen C. Downs.

ASSISTANT INSPECTOR OF MILK—Fred L. Robertson.

INSPECTOR OF VINEGAR—Stephen C. Downs.

INSPECTOR OF ANIMALS—Harry Lukes.

INSPECTOR OF PETROLEUM—George H. Powers.

SUPERVISOR OF SOLDIERS' AND SAILORS' GRAVES—Marcus M. Fisk.

BUILDING COMMISSIONER—Fred W. Lumis.

BUILDING INSPECTORS—Daniel W. Campbell, Leigh Ferry Morgan.

PLUMBING INSPECTOR—Frank W. Tower.

ASSISTANT PLUMBING INSPECTOR—Ernest G. Bates.

INSPECTOR OF GAS PIPING—Fred A. Bicknell.

INSPECTOR OF WIRES WITHIN BUILDINGS—Allen W. Hopkins.

ASSISTANT INSPECTORS OF WIRES WITHIN BUILDINGS—John F. Shea, Wilbur Chauncey Field.

INSPECTOR OF ELEVATORS—Charles H. Sibley.

CLERK OF BUILDING DEPARTMENT—Alice Ferguson.

BOARD OF APPEAL—George C. Gardner, Thomas J. O'Brien, Daniel W. Mellen.

INSPECTOR OF COAL AND COKE—James L. Bowen.

FISH WARDEN—James P. Hatch.

WATER COMMISSIONERS—The Mayor, Edwin A. Blodgett, Charles H. Mulligan.

CHIEF ENGINEER OF WATER WORKS—Elbert E. Lochridge.

SUPERINTENDENT OF WATER WORKS—A. E. Martin.

WATER REGISTRAR—Alfred R. Hathaway.

BOARD OF PUBLIC WORKS—Claudius C. Margerum, Frank G. Tobey, Napoleon E. Russell.

BOARD OF REGISTRARS OF VOTERS—John W. Nolan, Stephen F. Bible, Warren P. Underwood, E. A. Newell, Clerk.

ASSISTANT REGISTRAR OF VOTERS—Edwin R. Spaulding.

CLERICAL ASSISTANTS—Edith M. Ware, Julia A. O'Brien.

FIRE COMMISSIONERS—Wm. W. Tapley, Charles B. Hitchcock, Edwards O. Davis, Thomas J. Sheridan, Charles A. Allbe.

ENGINEERS OF THE FIRE DEPARTMENT—Chief, William H. Daggett; Deputy Chief, Everett A. Kimball; District Chiefs, Burton Steere, John R. Graves: Superintendent of Fire Alarm, Herbert H. Berry.

PARK COMMISSIONERS—Stanhope E. Blunt, Nathan D. Bill, Theodor R. Geisel, Charles Adams, Dwight R. Winter.

HONORARY PARK COMMISSIONER—Daniel J. Marsh.

PARK SUPERINTENDENT—Charles E. Ladd.

COMMISSIONERS OF SINKING FUNDS—Robert O. Morris, A. B. Wallace, A. Willard Damon.

LICENSE COMMISSIONERS—George G. Tait, Frederick J. Hillman, Hugh J. Donnelly.

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CITY PLANNING COMMISSION—Mayor, ex officio; Charles H. Parsons, Kurt R. Sternberg, William M. Stevenson, J. Frank Drake, Henry H. Caswell, Christopher G. Simpson.

POLICE DEPARTMENT.

POLICE COMMISSIONERS—Daniel J. Brown, M.D., Charles F. Spellman, Joseph G. Roy.

CHIEF OF POLICE—William J. Quilty.

DEPUTY CHIEF OF POLICE—Henry M. Perkins.

CAPTAIN OF DETECTIVES—Frank W. Quilty.

CAPTAINS—Martin P. Costello, Charles A. Wade, Edward J. Rathbun.

DETECTIVE LIEUTENANTS—John St. Ledger, James T. Raiche, James M. Daly, Walter L. Henderson, George H. Norris, Daniel F. McCarthy, John McNeil, Joseph A. Murphy, Ernest P. Marble, Joseph D. Powers.

LIEUTENANTS—Michael J. O'Brien, Edgar A. Littlefield.

SERGEANTS—Frederick L. Thayer, Michael Kennedy, Daniel J. Twohig, John L. Maloney, Harley H. Blodgett, John A. Swift, Patrick J. O'Connor, Michael F. Egan, Edwin C. Holbrook, John F. Donoghue, Frederick J. Runnells, Edward Carey.

MATRONS—Mrs. Maria E. Holley, Mrs. Delia E. Flanagan.

POLICE OFFICERS.

NIGHT AND DAY WATCHMEN.

John H. Dunleavy,
James W. Murtagh,
Michael C. Quinlivan,
Charles H. O'Connell,
Ward E. Maranville,
Albert H. Shaw,
James J. Donovan,
Edward P. Tilton,
Patrick Keefe,
Albert F. Ward,
Simon J. Connery,
Ovila L. Huot,
William J. Grady,
Timothy J. Hallahan,
Charles W. Geary,
John F. Bacon,
James F. Dagnan,
Alexander Gray,
Charles H. Hatfield,
Patrick Lynch,
John P. Sullivan,
William J. Hurley,
Llewellyn D. Carey,
William F. Goldrick,
Michael F. Sullivan,
Horace G. Clark,
Aime L. J. Letendre,
Frederick P. Smith,
George F. Russell,
James A. Dowling,
James H. O'Brien,
Durham N. Pepin,
Thomas B. Drinan,
Clarence E. Bradway,
James J. Collins,
Bernard J. F. Bergren,
Peter H. Walsh,
William S. Bates,
John LaFond,
Patrick J. Fenton,
Frederick J. Sevigne,
Alfred H. Penfield,
John A. Hamberg,
Myron H. Bullard,
John A. Driscoll,
Charles Martens,
Perley J. Hewey,
William J. Hogan,
John F. Carlton,
James F. Mullins,
George E. Lynch,
Michael J. Flannery,
Howard F. Tourtellotte,
John G. Flynn,
Edward J. Slattery,
Michael J. Curley,
Arthur H. Carrigg,

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Jeremiah B. O'Leary, John J. Donlin, John F. Hedden,
Charles Hanlon, Ernest C. LaFleur, Philip E. Burke,
John Hayes, James W. Pease, Neil Bryson,
Patrick J. Keane, Edward J. Costello, Mitchel Frappier,
Thomas F. Connery, Owen C. V. Sloan, Montague R. Marsh,
Louis H. Pilon, John H. McDonald, Ellsworth C. Myers,
Eugene F. Kelleher, George N. Riley, Edward F. Cullinan,
James P. Gray, John F. Hurley, Harry O. Webster,
Thomas L. Kavanaugh, Harry R. Button, Charles D. Feustel,
Mathew P. Ryan, Lyman B. Bullock, Ernest Raymond,
William F. Lonergan, Ward C. Maranville, Charles J. Murphy,
Patrick B. Sullivan, John J. Crowley, John P. Cleary,
James J. Moylan, John P. Driscoll, John P. Fleming,
Thomas A. Kennefick, Arthur H. Parker, Louis C. Miller,
John H. St. Ledger, Thomas Moriarty, James J. Scanlon,
Matthew J. Meade, James B. Kemple, Charles G. O'Malley,
William G. Dale, Timothy H. Brodrick, Jr., Lawrence V. Malone,
John B. Carrigg, Thomas F. Murphy, Patrick Lovett,
Peter J. Mara, William F. Edmonds, Michael F. Clancy,
Frederick Cullen, Raymond J. Hannon, Edward J. Sevigne,
Thomas C. Fleming, George F. Henry, Jr., Charles M. Feeney,
John C. Driscoll, James G. Taylor, John Lamondia,
Cornelius P. Brosnan, Daniel J. Sullivan, Rolla C. King,
Charles C. Learned, Cornelius F. Dowd, Edward L. Keating,
Michael J. O'Brien, Daniel J. Long, William J. Wall,
Lovell S. Spaulding, Albert J. Tessier, Jeremiah A. Sullivan,
John J. Maloney, Raymond F. Connelly, Paul H. Rice,
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Edward D. Pepin, Frank J. McNeill, Patrick H. Meleady,
Fred A. Champous, Peter McLelland, Edgar P. Tanguay,
Ralph J. Carleton, John J. Long, Wm. H. Connor.

RESERVEMEN.

Wm. E. McCarthy, Frank W. Betters, Lawrence A. Huntoon,
George W. Bicknell, Frederick J. Kenner, Percy F. Laming,
Lawrence F. Hayden, John W. Harrington, Victor M. Tetrault,
Harry D. Foley, Thomas H. Tuohey, Hugh J. Daley,
John J. Maher, Alexander S. A. Ross, Charles W. Stetson.

SPECIAL OFFICERS.

H. H. Alcock, W. F. Bardwell, Thomas H. Benton,
Maurice A. Alexander, George W. Barnes, Fred J. Bergen,
Chester W. Allen, John H. Barnes, Barney H. Bergman,
Henry P. Anderton, Joseph E. Barnes, Herbert H. Berry,
William H. Bagg, James J, Baron, Chas. R. Berryman,
Theodore C. Baggs, John J. Barry, Chas. J. Best,
Alfred Chester Bailey, Joseph E. Bates, Alger P. Blaine,
Fred L. Baker, Hiram A. Beach, Frank A. Blanchard,
Nicholas J. Baker, Marshall A. Belmer, Eddy Bogan,

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Wm. F. Boyle,
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Fred H. Brockney,
T. H. Brodrick,
Geo. B. Brooks,
John W. Brooks,
Archibald Brown,
Harold E. Bryant,
Clinton R. Bruce,
David H. Bufton,
Wm. Bunnell,
Howard N. Butler,
Weston G. Carey,
Geo. W. Carpenter,
Thos. H. Cartmill,
Thos. W. Cashman,
Carl Wm. Castor,
John Cawley,
Nelson V. Chaffee,
David Chenade,
Joseph Chas. Clark,
Albert P. Cross,
Patrick Courtney,
Herbert C. Cook,
Wm. P. Connors,
Thos. Connors,
John J. Connor,
John Connolly,
Geo. E. P. Collins,
Geo. H. Colgrave,
Francis X. Clarke,
Thos. M. Corliss,
Wm. O. Cornell,
Michael J. Crowley,
Robert Crowe,
James J. Crowe,
Mitchell Dahdah,
C. L. Davis,
Michael J. Davis,
Antonio Dantoni,
Ludovico DeCaro,
Luigi DeNucci,
Eli Deyo,
Arthur J. Dion,
John H. Donnelly,
Matthew J. Donovan,
Albert N. Dorion,

McClellan Dow,
Patrick L. Dowd,
Dennis J. Driscoll,
Frederick A. DuBois,
Chas. H. Dustin,
Walter R. Eastman,
Ralph W. Ellis, Jr.,
John W. Falvey,
Wm. P. Faulkner,
L. J. Fennery,
Michael A. Feustel,
Warren S. Fielding,
Clarence M. Fisher,
Joseph Flavell,
John Fleming,
Wm. E. Flynn,
Howard G. Fox,
R. C. Franklin,
Chas. Fredericks,
Thos. Clement Galvin,
Albert W. Gates,
W. A. Gaunt,
Capt. C. E. Gesner,
C. H. Gibbs,
Harry Edgar Gibbs,
Thos. S. Gota,
E. F. Goodwin,
J. J. Gould,
D. H. Guay,
Arthur S. Hall,
Clarence R. Hall,
Harold Edmund G. Hall,
Joseph Halpy,
James H. Halstead,
Wm. J. Hannifin,
Ernest Harrington,
Wm. Allen Harris, Jr.,
Wm. J. Hassett,
Wm. A. Hathaway,
John H. Haverty,
Martin R. Healy,
John E. Hickey,
M. J. Harrington,
James P. Hillard, M.D.,
J. B. Hills,
D. A. Hogan, Jr.,
James Theodore Holmes,
Henry J. Howard,
John Hurley,

Chas. Ireland,
James H. Jones,
Joseph H. Julian,
A. E. Keith,
E. J. Kelley,
Wm. W. Kimmel,
Joseph Konopka,
Chas. M. Ladd,
Harry E. Lakin,
Louis E. Larson,
John J. Lee,
Henry C. Lombra,
Antonio Lopez,
Romeo Luzon,
Michael D. Lynch,
James H. Lyons,
Frank W. McGinnis,
James M. McKee,
Daniel J. Mahoney,
Robert P. Marsh,
John Henry Martin,
Adolph D. Massey,
Pasquale Mastroianni,
Everett C. Maynard,
Andrew J. Melaney,
A. S. Miller,
Samuel Mirkin,
John Joseph Molinari,
Chas. E. Moody,
Roscoe R. Moody,
John Morgan,
Chas. F. Morse,
Edward S. Morton,
James Mourchis,
Geo. A. Mulany,
John H. Murphy,
George Muse,
John H. Myers,
W. J. McCarthy,
William McDonald,
William McDougall,
Fred S. Neddo,
John H. Nelson,
Henry B. Newman,
Paul J. O'Connor,
Robert W. O'Connor,
John J. O'Donnell,
Wm. Henry O'Neil,
Michael H. O'Sullivan,

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Francesco Pagliaro,
Antonio Perry,
Royal I. Pike,
Benjamin F. Parker,
A. N. Porter,
Chas. B. Porter,
Herman Pouliot,
James F. Powers,
Alex. Pringle,
Edw. G. Quinlivan,
Herbert Burns Quinn,
Sumner W. Rainger,
Melvin H. Ransom,
Napoleon Richards,
Cornelius Riley,
Fred E. Ripley,
Wm. H. Ripley,
J. J. Risley,
Fred W. Robbins,
John Rochford,
Abraham M. Rohrlich,
Herbert C. Root,
Matthew Joseph Rose,
D. Roy,
Chas. Saban,
Walter W. Samples,
Geo. C. Sampson,
Arthur Clark Sargant,
J. S. Sawyer,
Justus A. Schelb,
Thos. Parnell Scollins,
Chas. A. Sealander,
John A. Searle,
Otto Seiger, Jr.,
Arthur H. Shaw,
J. J. Shea,
John Sheehan,
James Sinclair,
James H. Sinclair,
Albert Smith,
Burton T. Sornborger,
Emidio T. Spagna,
Clifford J. Staples,
Col. Geo. H. Stibbs,
Cornelius C. Sullivan,
Timothy F. Sullivan,
Forrest F. Sweatland,
J. W. Tatum,
Geo. Telmosse,
Barney Theriaque,
Eugene L. Thornton,
Dustin A. Tice,
John L. Tongue,
H. H. Trauschke,
Wm. Trombley,
Geo. L. Tufts,
W. H. Tyler,
Harry Lee Waite,
Ralph H. Walsh,
Richard Warme,
Lewis L. Washburn,
Allen L. Watts,
George W. Wells,
Archie N. Wetherbee,
Andrew J. Whelan,
John E. White,
Herbert H. Whiting,
Lyman C. Whitman,
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MAYOR'S ADDRESS.

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MAYOR'S FOURTH ADDRESS

Gentlemen of the City Council:

In accordance with custom, at the beginning of a new municipal year it becomes my duty and pleasure to address you relative to your duties and concerning matters which in all probability will be brought to your attention. May I say at the outset that it is my earnest hope that this new year may bring, not only to you and the people of Springfield, but to the whole world, peace, prosperity, happiness, and a return to normal conditions.

You are beginning a year which will be filled with opportunities for good work. At no time in our city's history has a city council been charged with more serious responsibilities than you are now. There is a feeling of unrest prevalent. The great war that we are engaged in, the high cost of living, the great burdens which we are all bearing for humanitarian purposes, the rapid strides which are now taking place along all lines, tend to larger expense, and much of it you are forced to provide for by the mandate of a power higher than you or I.

By your inauguration into the City Council of Springfield you become the directors in a corporation whose holdings are valued at approximately $14,088,342.00, and whose revenue is based on assessment upon property owned by the people, valued at $196,330,620.00. You will have charge of the expenditure of income amounting to upwards of $5,000,000.00. You assume the responsibility of guarding the interests of 125,000 people and of protecting 25,000 homes. Yours is no ordinary task.

The Springfield of to-day has been 282 years in building. The work of laying the foundations upon which this community is builded came from the hearts of sturdy men and women who established along the shores of our beautiful Connecticut river, in a wilderness, the first permanent settlement; and each year something which has developed the stability of this community has been added. It may not be that every year has brought about permanent physical improvements, but in the evolution of time something materially lasting has been brought to the city until to-day Springfield stands as a munici-

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pality which will live, and if the traits of the city's character are continued, it will prosper for all time.

Matters of varying degrees of importance will come before you during the year, many of which will have a far-reaching and vital effect on this community where every interest is so dear to us. In the consideration of some of these matters you may be subjected to all kinds of pressure, and in some instances to what we have learned to call "political pull and influence," which frequently will be hard to resist, especially for new members. "Play the game straight" is a lesson which it is hard for even the shrewdest politician to learn. Avoid the easy course of trying to please every one; it yields the quickest return, but generally results in a short and inglorious career. Long continued and enduring success is the reward of square dealing and courage. Questions will arise in which there are wide and allowable differences of opinion. When such conditions occur, treat one another with mutual esteem and work together for the good of all. The public is in no mood to countenance petty bickerings on the part of public servants, which are intended to harass and bother other public servants, in different branches of the government, for cheap political purposes.

If there comes before you during the year an order for any action that is not for the best interests of the city, vote against it, and you will find unlimited support from the mayor's office. The mayor's power of the veto will be exercised in every instance when I believe the city council is acting for other than the best interest of the people.

FINANCES.

The most important problem confronting every municipality of the Commonwealth to-day is that of finances. While the financial standing of the city of Springfield is such that ours is regarded by financial authorities as an ideal municipality, and our position compared to many Massachusetts cities an enviable one, we must not assume that this condition will continue without effort on our part. Faithful, efficient, honest work in the past has united to build up the credit of this city, and we must do our work faithfully, efficiently, and honestly to keep it, bearing in mind always that strict integrity is the basis of financial credit, and that upright business methods will do more toward establishing and retaining prestige than any security.

The making of the annual budget is the most important governmental effort of the year to our citizens, and the same publicity will

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be given to it as the last three years. In preparing the budget I shall endeavor to recommend an appropriation that will be honest, fair, and just, alike to our financial condition and to the needs of the various departments, neither stinting the one nor favoring the other. Each department may be assured, as in the past, of most careful consideration of its wants, frank and full discussion will be entered into concerning the same, and a just and equitable amount, which will provide for efficiency and progress, will in each case, I hope, be awarded. I express the hope that the budget submitted may commend itself to your early and favorable consideration. I shall ask of the department heads the strictest economy. Do not misunderstand me in the use of the word "economy"; economy is not parsimony, it is simply the intelligent saving that does not impair efficiency—the thoughtful prevention of waste that ultimately produces an asset, not a liability. It is economy to have proper schoolhouses, well-kept streets, efficient fire and police departments, adequate water supply, sufficient sewers, and modern hospitals. The economy which I speak of, and which I urge you to follow, requires that there shall be expenditures for necessary construction and proper maintenance, and nothing more. The thrifty city is managed through the practice of this kind of economy.

Before taking up the discussion of the needs and recommendations of the several departments, I call your attention to the printed statement now in your hands, showing the present financial condition of the city. I will omit the full reading of this statement at this time, but refer you to the following important items of the same:—

The total unpaid taxes November 30, 1917, amounted to $867,335.16 (almost double November 30, 1913, $517,427.34), as against $759,849.63 on the same date the previous year, showing an increase of $107,485.53. When you take into consideration that the unpaid taxes in 1916 were only $2,989.76 more than in 1915, when times were hard and even soup-kitchens were in operation in this city, and realizing that everybody has been led to believe that 1917 was such a prosperous year, to hear such an amazing statement of facts is astonishing. There must be some reason for it. If this condition is general we had better ask for legislation for the re-enactment of the law which was operative two years ago, which gave cities the power to place interest rates on unpaid taxes anywhere from six to ten per cent. The chief offenders are the large property owners, and they know that taxes are an annual charge and should make provisions to meet their obligation. The city is not supposed to do a financing business.

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The surplus of $660,934.73 was decreased $57,387.36 to a total of $603,547.38, but it should be borne in mind that I put $244,537.07 of 1916 surplus in 1917 tax levy. This surplus is largely represented by the uncollected taxes and the unexpended balances from the various departments at the close of the fiscal year. As I have previously held that $500,000.00 is an ample amount to remain in the surplus account, I shall again advise that the sum above that amount be placed to the credit of the 1918 tax levy. The taxpayers are entitled to the unexpended balances to help reduce this year's taxes, and especially so at this time. This will amount this year to $103,547.36.

I have also agreed to reduce the surplus account if I find the tax levy to be burdensome on account of placing the new "Balliet School," so-called, in the budget and paying for the entire cost this year. By financing this proposition in this way, at the present rate of bonding, the city will eventually have saved in interest charges $46,500.00. It will also be necessary to reduce the surplus $35,000.00 to provide for Water street widening, for which payments have been made without an appropriation, and now this is the only account that the appropriation can come from.

Herewith is appended a table showing temporary loans made in anticipation of revenue in 1917:—

Temporary Loans.

1917,	Feb.	16,	$300,000, due Nov. 7, 1917, Springfield Safe Deposit & Trust Co., discounted at	3.99%
	March	30,	200,000, due Nov. 2, 1917, Old Colony Trust Co., Boston, discounted at	3.43%
	April	1,	40,000, due Oct. 30, 1917, Commissioners of the Sinking Funds, Springfield, Mass., discounted at	3.50%
	June	22,	300,000, due Nov. 9, 1917, S. N. Bond & Co., New York, discounted at	5.06⅔%
	July	13,	600,000, due Nov. 12, 1917, Bond & Goodwin, Boston, discounted at	3.92%
	Oct.	1,	50,000, due Nov. 6, 1917, Springfield Institution for Savings, discounted at	4.50%
			$1,490,000	

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The total operations of the City Treasurer for the fiscal year 1917 are as follows:—

Cash Receipts.

From revenue sources,		$7,232,772.12
From non-revenue sources,		309,840.49
		$7,542,612.61
Cash balance, December 1, 1916,		685,459.73
		$8,228,072.34

Cash Payments.

For revenue purposes,	$7,325,847.14	
For non-revenue purposes,	448,338.85	
		$7,774,185.99
Cash balance, November 30, 1917,		453,886.35
		$8,228,072.34

The following summary shows the purposes for which outstanding bonded debt was created:—

Water Works,	$2,118,000
Schoolhouses,	3,162,400
Municipal Group,	1,535,000
Other Public Buildings,	457,100
Street Widenings and Extensions,	973,000
Sewers,	234,500
Parks,	150,200
River Front,	2,000
	$8,632,200

The average rate of interest on the above debt figures 3.88½ per cent. per annum.

The $800,000 bond issue for the Dwight street widening and extension loan does not appear in the above statement, as the bonds were dated December 1, 1917, carrying the debt into the fiscal year of 1918. With bonding for the Dwight street improvement added, the bonding for purposes of street widenings and extension will assume an importance and size that will make it third in the above table.

The following statement shows that the borrowing capacity of the city of Springfield for the coming year has increased $145,619.28 over what it was at the close of the last fiscal year, and notwith-

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standing the fact that the 1918 debt limit was automatically reduced $144,950.50, and will eventually be reduced $435,000, by reason of the State taking away $17,400,000 of our intangible valuation. This result was accomplished because the amount of debt incurred was not in excess of the amount of debt that matured and was paid off plus the increase of our borrowing capacity which the growth in regular valuations permitted.

Amount of Debt City can Incur in 1918, within Statutory Limit.

2½ per cent of $193,881,373, average valuation for three preceding years,		$4,847,034
Bonded debt other than water debt,	$6,514,200	
Less debt exempted by special acts of the legislature,	1,976,000	
	$4,538,200	
Less general sinking funds,	821,219	
		3,716,981
Debt city can incur in 1918,		$1,130,053

The mayors and city treasurers of several of our cities, appreciating that by taking away the intangible valuations the municipalities lost out on the debt limit, and agreeing that the same should be provided for in some way, are going to ask the present State Legislature to enact a law increasing the per cent from 2½%, present rate, to either 3%, 3½% or 4%.

In making comparison of the new income tax affecting our local conditions, based on what the city lost by taking away the intangibles under the old law, the $17,400,000 taxed at $17.80, the local rate, would have produced a revenue of $309,720.

Under the present law of taxing incomes from intangibles (stocks and bonds) at the rate of six per cent, and after the prorating by the State among the cities and towns, the city of Springfield receives not less than $282,461,—a loss in revenue from this service under the new law of $27,259.

The Funded Debt maturing in 1918 totals $405,700. Of this amount $89,000 is Water Debt, which will be paid by receipts of the Water department, and $316,700 serial bonds for sundry purposes, that will have to be appropriated for and paid from the tax levy.

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The increase in Serial Bonded Debt to be taxed for in 1918 over 1917 amounts to $10,500, and the increase in the interest on Bonded Debt amounts to $24,733, whereas the amount to be appropriated for the Sinking Funds decreases $1,000, making the total net increase of Debt charges $34,233.

I am presenting for your information and for the benefit of our citizens a detailed inventory of the land and buildings owned by the city:—

INVENTORY RECAPITULATED.

	Land.	*Building.*	*Total.*
Fire Department,.....	$106,000	$429,100	$535,100
Schoolhouse Property,.....	1,346,492	3,845,875	5,192,367
Park Department,.....	3,504,100	69,700	3,573,000
Water Department,.....			714,250
Miscellaneous,.....	1,587,325	2,486,300	4,073,625
	$6,543,917	$6,830,975	$14,088,342

INVENTORY IN DETAIL.

FIRE DEPARTMENT.

	Land.	*Building.*
Armory street,.....	$2,000	$16,000
n. s. Boston road,.....(on land G. H. Howard)		200
Chestnut street,.....	22,500	14,500
Court street,..... (assessed with Police)..		101,500
Margaret street,.....	2,600	25,500
Mill street,.....	8,000	16,500
Mill river lane,.....	500	2,000
North and Patton streets,.....	14,000	58,000
North Main street,.....	30,800	20,000
Oak street (I.O.),.....	2,000	37,900
Oakland street,.....	3,500	11,000
Pine street,.....	4,000	35,000
Plainfield street,.....	2,000	10,500
Walnut street,.....	7,100	32,500
Winchester park,.....	7,000	48,000
Total,.....	$106,000	$429,100

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SCHOOLHOUSE PROPERTY.

	Land.	*Building.*
Central High School,	$172,800	$350,550
High School of Commerce,	174,200	735,900
Technical High School,	97,992	280,350
Acushnet avenue,	16,000	45,450
Alden street,	3,800	14,350
Armory street,	8,500	147,200
Barrows,	18,700	44,600
Boston road,	1,500	13,850
Brightwood,	6,500	162,850
Buckingham,	45,000	160,550
Carew street,	18,000	46,100
Carlisle,	3,000	200
Central street,	20,000	78,100
Charles street,	4,000	14,300
Chestnut street,	41,000	266,300
Dry Bridge,	1,000	2,950
Eastern avenue,	5,400	30,450
East Union street,	5,000	24,400
Emery street shop and storehouse,	7,000	47,500
Five Mile Pond,	500	2,000
Forest Park,	30,000	96,050
Glenwood,	2,500	16,550
Homer street,	12,000	36,800
Hooker,	178,100	80,350
Hooker (new),	40,000	
Howard street,	38,600	249,900
I. O. Grammar,	6,500	185,925
I. O. Primary,	3,000	12,350
Jefferson avenue,	7,500	41,200
Kensington avenue,	10,500	98,350
Lincoln,	24,000	89,200
School street,	35,500	20,200
Sixteen Acres,	500	2,550
State street,	69,000	78,150
Strickland,	5,000	20,200
Sumner avenue,	49,000	59,900
Tapley,	22,000	70,550
Amount carried forward,	$1,183,592	$3,626,175

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	Land.	*Building.*
Amount brought forward,	$1,183,592	$3,626,175
Vernon,	42,900	3,150
Vocational,	79,800	43,850
Wachogue,	200	800
White street,	14,000	49,900
William street,	14,000	58,350
Worthington street,	12,000	56,650
Rushville portable,		3,450
Washington portable,		3,550
Total,	$1,346,492	$3,845,875

MISCELLANEOUS.

Summer street yard,	$153,000	$39,200
Page boulevard,	400	
City yard, e. s. Pecousic avenue,	19,000	26,600
City yard, w. s. Pecousic avenue,	11,000	
Between Pecousic avenue and South street,	5,000	
West street dump,	10,000	7,000
Logan street yard,	10,800	25,000
State street, almshouse,	75,000	27,000
State street, incinerator,		23,800
Boston road gravel pit,	200	
Boston road and Five Mile Pond,	4,500	
Island Pond gravel pit,	300	
Trap rock quarry,—Westfield,	1,000	
Carew street,	300	
Carew street, corner Baltimore and Fleetwood,	600	
Locust street,	2,070	
67 Arch street,	1,000	
Birnie avenue extension,	1,000	
Abbe avenue crossing,	10,400	
Emery street shop,	20,875	26,000
Fulton street, Menard property,	3,900	
Fulton street, Barrett property,	3,800	
Fulton street, King property,	3,150	
Fulton street, Albert property,	6,200	
Wayfarers' Lodge,		21,700
Amount carried forward,	$343,495	$196,300

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	Land.	*Building.*
Amount brought forward,.....	$343,425	$196,300
Police station (I. O.),.....	300	3,000
Water, Court and Pynchon,.....	189,400	
Police,.....		115,600
Fire,.....		101,400
Power station and garage,.....		46,000
Court and Pynchon,.....	1,050,000	
Group,.....		2,000,000
Sanitary,.....		24,000
Wilcox street, "Fort Gallagher,".....	3,000	
Berkshire avenue and B. & A. R.R.,.....	200	
Robbins road rifle range,.....	1,000	
Total,.....	$1,587,325	$2,486,300

WATER DEPARTMENT.

	Land and Buildings.	
Broadway,.....	$21,000	
Armory street—Van Horn,.....	6,000	
Additional land,.....	2,700	
Liberty street (west and east),.....	8,000	
Lombard reservoir,.....	6,000	
Five Mile Pond,.....	10,500	
Colton street,.....	10,000	
Ludlow supply,.....	68,256	
Little River supply,.....	172,854	
		$305,310
Easements,.....		408,940
		$714,250

FINANCES.

The "pay as you go" policy which has been in practice for the past three years will be continued this year as far as possible. As a taxpayer I would prefer to see a genuine and complete "pay as you go" policy; as a business man I would know that such would mean money in my purse in the long run.

The bonding houses have already issued an edict that the ban will be placed on every municipal bonding proposition this year unless it is an absolute necessity.

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The State annually calls upon municipalities to contribute in constantly increasing amounts to the support of its government and institutions. This year we must expect a large increase. Gentlemen, we have a hard year before us, and it will be well to scrutinize carefully every proposition for the appropriation of public funds, to the end that the burden of taxation may be lightened upon the people.

Let our watchword for this year, at least, be "Conservative appropriations and no further improvements which require 'bond issues.'"

The "municipal finance act" of 1913 requires that no department shall incur a liability until an appropriation has been made, and if the money appropriated is to be borrowed the bond order should precede the appropriation. Hence our old form of procedure, that of passing an order reading, "any expenditure under this order to be taken temporarily from money in the treasury, and refunded later by an issue of bonds in such manner as the city council may hereafter determine" seems to be irregular. It is the duty of city officials as well as citizens to obey the law, and we must obey. It may be that the old method is the more practical one, and if so the law should be changed.

SCHOOLS AND SCHOOLHOUSES.

The largest and most important item in our municipal expense is the cost of public education. The burden is a heavy one, but it is one that our people bear cheerfully. All that they expect is value received for the amount expended, and I am confident that they believe they are getting it. My observations of the school system and study of it at a close range have impressed me with the fact that we are doing a great work along educational lines in this city, and that a high standard, if not the highest standard in New England, is maintained. An exceptional teaching force of men and women are among us, who are not only imparting knowledge to their pupils but who are holding up before them, by precept and example, those ideals through manhood and noble womanhood without which there can be no true education. I have been tremendously impressed with the earnestness and enthusiasm of the teachers in the schools of this city. As I have said, however, that the city does not begrudge one cent of its appropriation for schools and considers that this large appropriation has been wisely and efficiently expended, nevertheless we must use every effort consistent with the maintenance of the present high standard of our schools to avoid any increase in expend-

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itures this year. It must be noted, however, that the salaries were increased last year, and that we will now have a full year's pay to provide for. Supplies have also increased in cost. We are a growing city, and the school population has increased, which means providing more schoolrooms and a corresponding number of teachers. These additional expenses may be offset to some extent by the saving which will come about by the reorganization of the school system and the establishment of the junior high school, which enables a pupil to finish the prescribed course in twelve years as against thirteen years formerly. I am glad to note the change in the system of delivering the supplies from the storehouse, the keeping of the records of all deliveries, and that an inventory is being taken, and that a report will be given to the committee each month. This will spell "efficiency."

We must continue to build school buildings to provide for the ever increasing enrollment, but unless conditions improve I shall advise building only the Carew street school, which has already been contracted for, and which according to agreement will be completed and ready for occupancy the first of September. The Brightwood school has just been finished, which will relieve that section of the city and also release two portable schoolhouses which will be used as overflow buildings at Homer street and Forest Park. The Washington street primary and the new Hooker school will both be completed in the fall and relieve congestion in their districts.

The Technical High school and the Chestnut street school additions will have to wait, as well as the Central High school gymnasium. In my opinion the most needed school project and the one that should go first is a new school on the School street lot to replace the old State street grammar school which was inadequate and obsolete twenty-five years ago.

POLICE DEPARTMENT.

The protection of life and property demands that this department shall be at all times on a most efficient basis, and I am glad to state that the department has lived up to the expectations of our citizens in a most trying time and deserves commendation. Our city, for its size, is being kept remarkably free from vice and crime and the illegal sale of liquor, and good order is being maintained upon our streets. The morale of the force is of the highest order. There has been quite a change in the personnel of the force, and several officers and men who have rendered faithful service for many years have been

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retired and placed upon the pension roll. They deserve the thanks of this community for the good work that they have performed.

The chief, appreciating the worth of the Ford patrol service, has asked for two more cars, and the same will receive due consideration in the budget conference. The recommendation which I brought up last year relative to additional space and new police court quarters will now have to wait, pending a settlement of the bridge question. After due deliberation I recommend the appointment of two policewomen, to be appointed and to serve directly under the jurisdiction of the Police Department, and that an ordinance be considered, passed and put into operation at once.

In other cities where it has operated successfully, the work of the policewomen has been largely of a corrective nature. They are particularly assigned to duty with respect to women and children, to observe, supervise, and report on matters affecting public morals, especially in public dance halls, cafes, parks, theaters, railway stations, boat landings, and other places of like nature. They have been found, in cities who employ them, to be especially well adapted in making certain investigations. They are not supposed to make arrests, although they have the power, unless it is absolutely necessary.

On December 21st last, practically the entire force, with the exception of the chief, through a petition presented to the city council, asked for an increase in pay. The matter was referred to the incoming city council and will come up before you for action. Personally, at this time, I cannot offer much encouragement to the request, although I sympathize keenly in a reasonable request from any department for an advance in salaries, yet I cannot lose sight of the fact that the high cost of living is reflected in our municipal expenses at the present time and that the taxpayer, already burdened, must also be considered when the question is brought up. In addition, salary advances in one department will inevitably result in as just and reasonable demands of a similar nature from other departments; ours must be the responsibility of adjusting these claims and those of the taxpayers on a basis that will be equitable to all concerned.

FIRE DEPARTMENT.

A well regulated, well equipped, and well manned fire department is one of the best assets that any city can possess. I believe that Springfield has just such a department, not wholly perfect, but one of which its citizens are justly and rightfully proud. Its personnel is

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of the best, and I am of the opinion that no city, large or small, can boast of a better, cleaner, or more patriotic lot of firemen than our own city. There will be presented to you an ordinance asking for, with the approval of the chief, an increase of sixty-three more men. This matter will demand your serious consideration. It is true, as the chief states, that it is six years since the permanent force was increased by the addition of eleven men and at the same time decreased by the dropping of seventeen call men, but at that time we had a number of pieces of horse-drawn apparatus, and one of the arguments advanced in the motorization of the department was that by making the change we gained the services as firemen of the men who acted as drivers. We are now completely motorized, so you will see that our force has automatically increased. In addition, neither the number of the companies or the pieces of apparatus have increased. This question I feel convinced will be threshed out in a satisfactory manner, but personally I cannot at this time approve the increase. I agree, however, that if the fire whistle is not put back in operation, especially during meal times, or big bells installed in the place of the same, that it will be necessary to add to the force.

The chief has recommended the purchase, at an approximate cost of $8,000, of a new up-to-date motor pumping engine to replace the tractor-drawn steam fire engine in service at the Oakland street station. The liability that, owing to age, the engine might be condemned, and that that rapidly growing section of the city must be adequately protected, are sound arguments; I approve of the recommendation. The chief also calls attention to the fact that the Chestnut street and Oakland street houses should be overhauled, and that a new station should be built to take the place of the Mill street house. This I have recommended in previous addresses should be done. He also recommends that a new repair shop should be erected upon the Armory street lot. All these recommendations are good, and in ordinary times would merit serious consideration, but this year we cannot afford them and they must not be encouraged.

DEPARTMENT OF STREETS AND ENGINEERING.

The rapid strides which we have been making in improving our streets is one of the healthy signs of our city. During the past five years vast sums have been spent, and it has been the policy to apply some portion of the funds annually appropriated to permanent construction, and experience has shown that it was wise judgment.

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There is still a great need of more permanent work, but in view of the great strain that our people are under, in providing for other necessaries, I shall advocate a retrenchment in street work. As a matter of common pride, of course, our streets must be kept clean, and we face a constantly growing expense for the cost of maintenance; these must be provided for. In addition, the work on the streets which were accepted under the law authorizing the assessments of betterments must be completed within the prescribed time in order to collect assessments.

The most important and certainly the most expensive single proposition that faces us during the coming year is the widening and extension of Dwight street. We are already definitely committed to this needed improvement and work will be started at an early date.

Other propositions which are already in the works, such as the South Main street widening, Water street widening, Page boulevard extension, Mill street extension, Long Hill street, etc., will be completed if it is possible to do so. But Taylor street extension and Liberty street widening, both of which I believe are much needed improvements, together with any new projects, will have to go over until times are more favorable.

Good sidewalks are fully as desirable as good roads, and although we have accomplished much in the way of new construction, yet there is still a large number of walks that are in a disintegrated and dangerous condition, and I shall recommend a continuance of the present policy until all our walks are put in good repair.

A new system has been adopted in the disposal of garbage and is working out well. The swine owners are purchasing the same at one dollar per ton. It has been estimated that our revenue from this source this year will amount to $10,000.

SEWERS.

An unusual amount of work was required the past year in the maintenance of the sewer system, on account of the severe storms in the months of July and August, the amount of rainfall being the greatest ever known in years in this part of the country, with a consequent flooding and damage in many streets and buildings. It is evident that we have outgrown the sewer system, and it will be necessary to reconstruct or add to the old structures and to build new ones in the very near future. Already a trunk sewer is being built to relieve Gunn square section, but I shall recommend that work on

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other storm water sewers be started as soon as plans can be made for them, and shall submit and ask for a sufficient appropriation to finance same.

BRIDGES.

Last year I called your attention to the urgent need of a foot passenger bridge alongside the Boston & Albany railroad bridge on St. James avenue. I renew my recommendation this year, and I hope to see action in the matter, for the conditions at that point are absolutely dangerous and some day there is going to be a serious accident there. "An ounce of prevention is worth a pound of cure."

The relaying of the decking on the North End bridge had to go over last year to this year, owing to the inability of the contractors to procure the necessary timbers. We have been practically assured of this lumber in the early spring, and the work will be pushed to rapid completion.

The new Page Boulevard bridge, which was designed and constructed within the department, is practically completed, and when the roadbed is finished this thoroughfare will furnish an additional artery of travel between the city and its eastern sections.

A new bridge over the Boston & Albany railroad at the so-called "Red House crossing" on Berkshire avenue is being contemplated, and if the railroad adds to its trackage the city ought to demand a new structure on the new lines of the street as previously laid out.

FORESTRY.

One of the best legacies for future generations that we can bestow are beautiful trees, which in years to come will add so much to the attractions to our City of Homes, and although the amount of tree planting was curtailed last year the nursery work was carried on successfully with an entirely satisfactory growth of all nursery plantings.

It is interesting to know that a census shows a total of 31,937 trees under the care of the Forestry division. This does not include any of the trees in our public parks.

STREET LIGHTING.

The street lighting of Springfield will compare favorably with that of any American city. While some individual streets are not as well lighted as we hope to see them, yet by rearrangements we are making substantial improvement on them.

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Only the normal increase in new lights to provide for lighting of new residential streets will be allowed this year.

HEALTH DEPARTMENT.

The Health department occupies a distinctive place in municipal affairs, because the protection of the public health is not a commodity that can be purchased on the open market but represents a growth or development along a diversity of lines which are chiefly educational in their nature and depend upon well sustained efforts through a series of years for the accomplishment of definite results.

The tuberculosis clinic, now in its third year of operation, is an illustration. The eradication of tuberculosis is a work of great magnitude, but the clinic will always remain an integral part of any movement which may be carried on against tuberculosis. This work is a good work, in the long run economical, and in fact statute law compels the greater part of it, so that it must be done whether we deem it advisable or not.

The dental clinic, now being opened, is another illustration of the newer movements undertaken for protecting the public health. The good results from this clinic will be seen in future years, as the importance of sound teeth and their preservation in the maintenance of health is more fully understood.

It will devolve upon you to pass an appropriation for some sort of relief in the tuberculosis hospital, in compliance with the demands of the State. I have touched upon the whole general scheme under another head. May 5, 1915, in a letter addressed to the Mayor, the Public Health Council of the State Department of Health gave their approval of our present hospital only until September 1, 1917. Last fall I accompanied the state officials on a tour of inspection of our present quarters, and got from them an extension of time with the understanding that certain improvements would be made at once and that some plan for enlargement would be started immediately. This should receive consideration at the earliest possible moment.

PARK DEPARTMENT.

Those of you who have observed the use and enjoyment of Forest Park, Van Horn Park, and the smaller parks and playgrounds, during the past year, will be in hearty accord with my opinion that no money which the city expends returns better dividends than the appropriation

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for this particular purpose, and that the taxpayers will not begrudge the amount set aside from the general tax levy for the maintenance of this department.

As the years go on Forest Park grows in interest and attractiveness to our people, and we appreciate the more the generosity of the donors, as well as the painstaking and fruitful efforts of those charged with the administration of the same.

When the call came last spring for conservation of food, and every one was asked to plant all suitable and available land, Springfield came forward and so far as I know was the first city to allow the use of park lands for this purpose. The Gurdon Bill tract did not prove very successful, as the land, owing to too much shade and lack of sunshine, did not produce much; but at Forest Park, where there were 460 gardens, each containing 5,000 square feet, the results exceeded expectation. Turnips, cabbages, and other winter vegetables were grown in great quantities. It has been estimated that between $16,000 and $18,000 worth of vegetables, including about $12,000 worth of potatoes, was raised at Forest Park last year. The garden program will be continued there this year. It has not only proven of money value but a great educator, in teaching people how to produce the actual necessities of life and also to utilize their leisure time in the things that are worth while.

Outside of the ordinary maintenance expenditures and war gardens I shall not advise or encourage very much new work this year, and knowing the management and commission as I do I feel convinced that my retrenchment policy will be complied with. Money has been given to the city to develop the Gurdon Bill Park and Arboretum by Mr. Bill's children, and no appropriation will be needed to go ahead with its construction.

Although I am discouraging new work, I want to keep fresh in the minds of all the two propositions that I have advocated in previous addresses, namely, the taking over the land now owned by the water department, in the Van Horn section, also their land bordering Five Mile Pond. The water department should be reimbursed for same. Both are excellent park projects, and should belong to the Park department and be developed later at a more favorable time. Under no circumstances should they be allowed to slip out of the hands of the city.

The truant school property will soon be vacated, and in my opinion the city should come into possession of the same. The County Commissioners, at the time the question of financing the new proposi-

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tion was before the Legislature, agreed to give Springfield first call and at a fair price.

Probably the most important event that occurred last year in the Park department was the gift of a large tract of land adjoining Forest Park, by Mr. James B. Burbank and Mr. Rudolph C. Born, which with a small tract that was purchased added about 200 acres to the park. Both gifts were appropriately acknowledged by the city council.

It is my great pleasure at this time to announce to the people of Springfield another substantial gift which adds another tract to Forest Park and completes all the land needed to make this park eventually one of the most beautiful parks in the United States.

Mrs. Ada Mayo Sutton, Mrs. Alice Mayo Fisk, and Mrs. Emily Mayo Schell, the daughters and heirs of the late Alfred N. Mayo, have donated as a memorial to their parents Alfred N. and Julia B. Mayo, all the land now occupied by the Springfield Brick Company, adjoining Forest Park, in such manner that it will become available for park purposes in about ten years.

MUNICIPAL WATER WORKS.

The Municipal Water department is entirely different from any other form of municipal activity. In conducting this department the city is performing no municipal function, but is doing a public service business of exactly the same kind as is done by telephone, electric lighting, and gas companies. In fact, in many municipalities, particularly in towns, water is supplied by private companies. When I have spoken of municipal debt the water debt has always been kept separate, because such debt, as well as all other expenses of the water department, is paid, not out of the taxes, but out of water revenue.

Once again I desire to respectfully and urgently call your attention to the question of paying the water department for all water furnished to the various departments, and I hope that this year the matter will be settled. The amount of water used by the city (partly metered and partly estimated) in 1917 has been computed at about $72,100. This amount has to be entered on the books of the water department, and then charged off as a bad debt. It is pleasing to note, however, that the city's consumption of water has decreased since 1915, even with the increased population and more schools. In 1915 we used $74,555.97, exclusive of fire hydrant service, which is $2,455.97 more than in 1917. The principle, however, is wrong. Each department is

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not showing the true cost of its operation. It costs somebody something. The school department, for instance, cannot show the proper cost per pupil, and in my opinion is not charging a just and fair tuition fee to outside pupils. In addition the taxpayer is not treated fairly, as under the present conditions the rates cannot be equitably adjusted. The past year was notable for the number of settlements of Little River damages cases. The Waite case, the Westfield Marble and Sandstone company case, and the Berkshire Street Railway company case, are all disposed of. Consequently, addition to the plant, property, and equipment has amounted to $71,505.20.

DEPARTMENT OF CHARITIES.

The people of our city are charitable. They do as much for the unfortunate as do the people of any other city in the country. On the whole, our poor are well taken care of. Although times were better and fewer men out of work, and notwithstanding that there were fewer inmates at the almshouse and fewer families aided, the total expenditures in 1917 amounted to $100,150.34, as against $92,895.40 in 1916, the reason for this additional expense being the increased cost of supplies. I cannot see any encouragement for a reduction the present year; in fact, it looks like an increased appropriation.

This year the new Wayfarers' Lodge will be put in operation. We got along very nicely without one the past fall; however, I believe that the lodge is the proper solution of the tramp problem, and once reopened will soon come into its own.

The city hospital quarters are beginning to get overcrowded, and in the near future it may be necessary to occupy the upper portion of the building which is now used for the lodgings of the nurses and employees of the Isolation Hospital. This opens up a big question, and although we cannot think of new construction at the present time I wish to call the same to your attention and to present my views. We shall soon be called upon to build a larger isolation hospital, and the present almshouse building is one of the oldest city buildings. We have approximately fifty acres, and the location of this tract of land is certainly advantageous for building purposes; and in ordinary times, as the city is certainly growing out that way, I see no reason why the same should not have a comparatively ready sale, the proceeds of the sale of the land and buildings to be used toward the purchasing of a new site and the erection of suitable buildings. I firmly believe the almshouse group and the isolation hospital group should be

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separate and not together. This whole matter which I have discussed only in a tentative way should have careful consideration at some future time.

BUILDING DEPARTMENT.

The disturbing influence of the great war, which we are now engaged in, has been registered in a marked decrease in building activity. Money, and especially mortgage money, for carrying on building operations, has been hard to obtain. Speculative building operations, for the present, at least, have been practically abandoned. Only that which is necessary and for which there is an immediate demand is being constructed to-day. Notwithstanding present conditions, however, quite a number of substantial buildings were erected last year, although the number of building permits issued for the year decreased 25 per cent in comparison with the preceding year. In 1917 twelve hundred permits were issued as against sixteen hundred in 1916.

The city is growing rapidly, and rentable space, not only in dwelling houses and tenements, but in business and manufacturing buildings, is getting more scarce every day. This scarcity is already beginning to manifest itself in the increased cost of rent.

Public welfare demands a reasonable amount of new building construction each year, and I hope that this year as much of this work will be done as is not inconsistent with government necessities.

AUDITING DEPARTMENT.

The new accounting system is working well, and the accounts of the city are being intelligently kept. The uniform estimate blanks which have been used the past two years will again be used this year, and I hope to present a more segregated budget for your approval than we have ever had.

I recommend that an ordinance be passed establishing the office of a "Deputy City Auditor," who shall perform the duties of the auditor during his absence by reason of illness or other causes. It is necessary now to make temporary appointments as occasions arise.

CITY PURCHASING AGENT.

I believe that the best interests of Springfield require that a purchasing agent be appointed for the purchasing of all supplies for

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all departments of the city. I feel sure a great saving can be made, not only in buying in great quantities, but by having a man whose duty it is to follow the market and obtain prices for all materials. The city will save a substantial sum of money.

In addition, all orders passing through the purchasing department could then be checked by the auditor against the appropriation of the department for which the goods were intended, which would prevent any department unknowingly exceeding its appropriation.

PUBLIC MARKETS.

In compliance with chapter 119 of the Acts of 1915, the city, on August 16, started an open public market, and the proposition has been so successful that we are operating an indoor market during the winter months. The price of the produce offered for sale was based on the prevailing wholesale price, and in thirty-eight market days about $50,000 worth of business was carried on, or approximately $1,350 per day. It has been estimated that the retail price would have been $65,000. Eggs and poultry were not included in this amount, and their sales aggregated quite a considerable sum. One hundred and twenty-five farmers took advantage of the market, some coming from as far east as Warren and as far south as Wallingford, Conn.

I recommend that the market be continued next summer.

THE BRIDGE QUESTION.

Acting under advice of the highest authority, I recommend that this city council, through proper channels, order the closing of the Old Toll bridge at once to all vehicular traffic. I feel sure that every engineer of repute in this country, after examination of the bridge, would approve of my recommendation.

CITY PLANNING.

The Planning Board was not very active the past year. After a careful study of the matter, I am satisfied that it is necessary, in order to avoid duplication and to secure efficiency, to have some kind of co-ordination with the Board of Public Works. As the term of one of the members of the Planning Board has expired, and he has declined

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further service, and having in my hands the resignations of two others, I intend to reorganize the board by appointing the three members of the Board of Public Works to membership on the Planning Board. The haphazard method of real estate developers in laying out streets to suit their own convenience has caused the various city departments a lot of expense. What authority we have is very little, but we should all be interested in making a good city plan. If only the prospective purchaser would refuse to buy land except on public streets or on those that have been approved by the Planning Board, it would compel the promoter to be more careful in his planning and help make the purchaser a more permanent investment and guarantee to him that his neighborhood has been well planned.

PATRIOTISM.

When in the year 1861 President Lincoln asked for troops to preserve the Union, Springfield loyally answered that call. Then in 1898, when President McKinley issued his call, Springfield's loyalty was again evidenced. And when President Wilson in June, 1916, deemed it necessary to protect our Mexican border, our boys once more responded, and ever since war was declared on Germany last April our boys with the same loyal devotion to their country's needs have come bravely forward, and our city is now represented in every field of activity. Many of those who have gone have left behind them families without means of support. I have escorted several delegations to their trains and visited them in their camps several times. And on each occasion I told them that they could be assured that their friends in Springfield would look after them and that they could go away with the certainty that none of their dependents would be left in want, and my confidence has been more than justified by the way the matter has been handled. In Mr. James L. Bowen we have an ideal State and Military Aid agent. According to high state officials he ranks first in the Commonwealth. We are paying out at the present time $1,750 per month, and this amount is increasing every month. It will soon be necessary for Mr. Bowen to devote his entire time to this work. Springfield has reason to point with pride to her record in all the war demands that have been presented. We have met every question nobly, generously and patriotically. I want to thank at this time all those who have in any way contributed to the cause, which must be successful.

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MISCELLANEOUS.

I want to call your attention again to the recodification of the city ordinances which was started four years ago and urge you to proceed immediately with the work. Fourteen years have elapsed since the last revision; many of the ordinances as published are now inoperative by reason of changes effected by acts of the Legislature, and others have been altered by the various city governments. I hope the committee appointed for the purpose will attend to their work and bring in an early report.

I renew my recommendation of providing the Veteran Firemen's Association with new quarters. The old hose house on Mill river lane, not now in use, which splendidly meets their requirements, can be put in first class condition, according to figures that I have obtained, for two thousand dollars. This would turn the entire Emery street building over to the school department and city property committee.

Once more I advocate biennial elections for the State.

Springfield insures itself on all public buildings against fire. In order to safeguard the city's interest I recommend the installation of a fire alarm box on every public building.

Once more I want to bring up for discussion the question of the city council electing the city solicitor instead of the mayor making the appointment. I firmly believe that the city will be the gainer by making the change.

Agitation has been carried on for many years to improve conditions at the Union Station. Personally I believe the situation is worse than it has ever been. The railroad pays no attention to keeping the platforms clear of baggage trucks and express matter. We have a committee appointed to investigate the matter, but owing to so many other important propositions that have been before us no progress has been made on this question. I hope, however, to begin work on the same in the very near future, and have the assurance of the loyal support of the Springfield Chamber of Commerce.

IN CONCLUSION.

As I stand here to-day I miss several faces in the city council of men who have served with me for years. Some have retired after years of exceptional service to this city, the recollection of which ought to be a source of great satisfaction to them in days to come. I believe that all our people appreciate what they and others and some of you have done for this city without compensation

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The reward for public service well rendered is more service, and I trust that our city or the Commonwealth may have the services of them at some future time. Personally, I regret very much their going, but at the same time I welcome most heartily those who take their places as new members of the city council.

This seems to be an opportune time to also commend the work of the men that serve the city on the various unpaid boards, such as the Police, Fire, Park, License, Water, Public Safety, City Planning and Sinking Fund Commissions, the School Committee, the Overseers of the Poor, and the Board of Health. The work of these unpaid officials is such as to demand considerable time and personal attention. All of their departments are in excellent condition; in fact, the service which these men give is of the highest character. That it is given gratuitously shows that there is a noble community spirit and a realization of one's individual civic obligation. I also want to add one more tribute where tribute is due. In the administration of my office during the past three years I have received splendid encouragement and co-operation from the heads of the various departments and all those who participate in the conduct of the city's business, and I take this opportunity of expressing my gratitude for the courtesy and good will which they have shown at all times.

In this address I have tried, gentlemen, to call to your attention many phases of our municipal life over which we are now to assume responsibility, and have ventured to submit my own opinion as to some of the principles which should guide us in the discharge of our duties. I have tried to impress upon you the necessity of action for the best interests of all the people. Let us strive to work together toward that end. Whatever our individual ideas upon how the city should be managed, they should enter into the consideration of our duties only so far as they guide us toward concentrated action for the good of all and the permanent prosperity of our city. The fair name of Springfield is in our hands. Her industrial development, her civic virtue, the caring for every interest in everything that tends to keep us in the forefront of the sister cities, are the paramount issues. Let our acts during the coming year show to our people that we have not only considered their financial interest but that we are actuated by the higher motive of "faithfulness in public affairs." Let us make a firm resolution that no one shall swerve us from the plain path of duty. Let us ever keep in mind that whatever the future may have in store, whatever others who may follow us may be called upon to do, that our responsibility is now. There is indeed reason for abiding faith in

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our city and for confidence in its future. We are fortunate not alone in natural advantage of favorable location, but also in the democracy of her people and the Springfield spirit which animates alike both rich and humble.

The great diversity of our ever increasing manufacturing enterprises indicates continued industrial success. We enjoy a normal natural growth, and improvements and developments prompted by loyal citizenship mark our progressive career.

In closing let me pay a just tribute to our city. New England possesses many fine municipalities, but every one here knows that in all that makes for a beautiful residential community, in civic spirit, in distinguished citizenship, in fine educational equipment, in public buildings and attractive private residences, in splendid streets and beautiful parks, in freedom from vice and crime, in good order, patriotism, and high character, no city, however large or rich, stands higher than Springfield. How better can we express our hope and confidence in her future than by those beautiful lines of one of New England's gifted daughters—Caroline Atherton Mason—who said of her beloved city—

"So through the round of years, she keeps
Advancing on her past;
Her old-time vigor never sleeps—
And even as she sows she reaps.
God bless her to the last."

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REPORT

OF THE

SCHOOL BOARD

OF THE

CITY OF SPRINGFIELD, MASSACHUSETTS

1917

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SCHOOL BOARD FOR 1918

FRANK E. STACY, MAYOR,
CHAIRMAN, *ex officio.*

TERM EXPIRES.

AT LARGE.—NEWTON M. HALL, Dec. 31, 1918
19 Elliott Street.

WARD 1.—WAYLAND V. JAMES, Dec. 31, 1918
VICE-CHAIRMAN,
69 Waverly Street.
Business Address, 381 Main Street.

WARD 2.—HENRY L. HIRSCH, Dec. 31, 1918
172 Main Street.

WARD 3.—RALPH B. OBER, Dec. 31, 1919
76 Maple Street.

WARD 4.—EDWARD M. PORTER, Dec. 31, 1919
4 Ingraham Terrace.
Business Address, Room 503, Third National Bank Building.

WARD 5.—FLORENCE CLARK, Dec. 31, 1919
107 Dartmouth Street.

WARD 6.—FRANKLIN A. LATIMER, Dec. 31, 1920
36 Beechwood Avenue.
Business Address, 310 Main Street.

WARD 7.—GEORGE H. FOSS, Dec. 31, 1920
530 Sumner Avenue.

WARD 8.—GEORGE H. HOWARD, Dec. 31, 1920
15 Centre Street.

SECRETARY,
BERTHA M. McCONKEY,
115 High Street.

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SUPERINTENDENT OF SCHOOLS,
JAMES H. VAN SICKLE,
Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10 A. M. to 1 P. M.

ASSISTANT SUPERINTENDENT OF SCHOOLS, ELEMENTARY SCHOOLS, AND KINDERGARTENS,
BERTHA M. McCONKEY,
Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10.30 A. M. to 1 P. M.

CHIEF CLERK,
FRED L. WARD,
Administration Building. Office hours: 8.30 A. M. to 5 P. M.; Saturdays, 8.30 A. M. to 1 P. M.

CLERKS,
EDWINA A. MILLER,
CHARLES A. H. PARKER,
MARY E. BRENNAN,
ADA B. CLAPP,
A. LEOTA PINNEY,
ANNA F. LEONARD,
CATHERINE M. PACKARD,
HELEN D. FISK.

SUPERINTENDENT OF PUBLIC BUILDINGS,
HIRAM L. DORMAN,
Administration Building. Office hours: 10.30 to 11.30 A. M. and 4 to 5 P. M.

CLERKS,
FRANK J. DOWNEY,
CATHERINE E. GOGGIN.

ATTENDANCE OFFICER,
JOHN A. PARKER,

ASSISTANTS,
H. A. KILLMER,
L. W. KNIGHT,
*B. R. MADISON,
Administration Building. Office hour: 12.30 to 1.30 P. M.

*On leave of absence for military service, Harry E. Handy, Substitute.

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SPECIAL COMMITTEES FOR 1918

Finance—The Mayor, Mr. Latimer, and Mr. James.
Text-Books and Supplies—Prof. Howard, Mr. Latimer, and Mr. Porter.
Central High School—Dr. Hall, Dr. Hirsch, and Prof. Howard.
Technical High School—Dr. Ober, Miss Clark, and Mr. Porter.
High School of Commerce—Mr. James, Mr. Latimer, and Dr. Hirsch.
Evening Schools—Prof. Howard, Mr. James, and Miss Clark.
Industrial Schools and Manual Training—Mr. Latimer, Mr. James, and Dr. Hirsch.
Kindergartens—Miss Clark, Dr. Ober, and Mr. Porter.
Physical Training and Hygiene—Dr. Hirsch, Dr. Ober, and Dr. Foss.
Music—Mr. Porter, Miss Clark, and Dr. Foss.
Household Science and Art—Miss Clark, Prof. Howard, and Dr. Hall.
New Buildings—Dr. Hall, Dr. Ober, and Dr. Foss.
Salaries—Dr. Hall, Mr. James, and Mr. Latimer.
Ward One Group of Schools—Brightwood, Chestnut street, Glenwood, Jefferson avenue, Lincoln, and Open-Air—Mr. James.
Ward Two Group of Schools—Armory street, Carew street, Charles street, and Hooker—Dr. Hirsch.
Ward Three Group of Schools—Howard street, State street, and William street—Dr. Ober.
Ward Four Group of Schools—Alden street, Barrows, Central street, Eastern avenue, School street, and Strickland—Mr. Porter.
Ward Five Group of Schools—Buckingham, East Union street, Tapley, and Worthington street—Miss Clark.
Ward Six Group of Schools—Acushnet avenue, Forest Park, and Sumner avenue—Mr. Latimer.
Ward Seven Group of Schools—Kensington avenue, Washington, and White street—Dr. Foss.
Ward Eight Group of Schools—Boston Road, Dry Bridge, East Main street (Indian Orchard), Homer street, Myrtle street (Indian Orchard), and Rushville Portable—Prof. Howard.

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ADVISORY COMMITTEE FOR VOCATIONAL SCHOOL

METAL-WORKING DEPARTMENT.

Edward S. Pomeroy, Master Mechanic, Smith & Wesson; Clarence W. Allen, Superintendent, Springfield Machine Co.

WOOD-WORKING DEPARTMENT.

A. G. Chapman, Carpenter-Builder; C. H. Cutler, Foreman, Hampden Lumber Co.; William Foster, Foreman, Shattuck Brothers.

PRINTING DEPARTMENT.

Erwin O. Blair, Job Printer; Charles B. Porter, Foreman, Printing Department, Springfield Fire & Marine Insurance Co.; William M. Lester, President and Treasurer, Loring-Axtell Co.

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SCHOOL CALENDAR, 1918

Winter Term begins	January 7, 1918
Winter Term ends	February 21, 1918
Spring and Summer Term begins	March 4, 1918
Spring and Summer Term ends	June 28, 1918
Fall Term begins	September 3, 1918
Fall Term ends	December 20, 1918

SCHOOL HOLIDAYS

New Year's Day	January 1
Washington's Birthday	February 22
Patriots' Day	April 19
Memorial Day	May 30
Columbus Day	October 12
Thanksgiving	(Thursday and Friday)

SCHOOL SESSIONS

Elementary Schools	8.45-11.45 A. M. 1.30-3.30 P. M.
Central High School	8.15 A. M.-1.25 P. M.
High School of Commerce	8.15 A. M.-2.30 P. M.
Technical High School	8.15 A. M.-1.50 P. M.
Vocational School	8.30 A. M.-12 M. 12.30-4 P. M.

SCHOOL SIGNALS

Two blows, five times, at 7.15 A. M.
No morning session of high schools.

Two blows, five times, at 7.45 A. M.
No morning session of primary and grammar schools.

Two blows, five times, at 11.30 A. M.
No afternoon session of primary and grammar schools.

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REPORT

OF THE

SCHOOL BOARD

To the Citizens of Springfield:—

The School Committee presents herewith the following condensed and necessarily somewhat general statement of the work of the year just closed, which in conjunction with the report of the superintendent will provide you with a summary of the activities of this branch of the City Government.

STATISTICAL DATA.

The following table will show the enrollment, average number belonging, and average daily attendance in high schools, elementary schools, and kindergartens, as of October 26, 1917, compared with November 24, 1916:

(These figures are taken from the reports of attendance for the months ending November 24, 1916—the second month of the school year, because of the delay in opening of schools—and October 26, 1917.)

	1916	1917	Increase
Enrollment.			
High,	2,705	2,167	*(538)
Elementary,	14,838	16,370	1,532
Kindergarten,	1,243	1,331	88
Totals,	18,786	19,868	1,082
Average Number Belonging.			
High,	2,600.8	2,075.9	*(524.9)
Elementary,	14,380.2	15,753.3	1,373.1
Kindergarten,	1,118.9	1,211.0	92.1
Totals,	18,099.9	19,040.2	940.3

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Average Daily Attendance.	1916	1917	Increase
High,.....	2,487.6	1,943.6	*(544.0)
Elementary,.....	13,666.9	14,533.1	868.2
Kindergarten,.....	954.7	1,004.5	49.8
Totals,.....	17,109.2	17,483.2	374.0

*Decrease.

It is interesting to note that for the school year beginning September 24, 1917, we are employing 731 teachers, an increase of 51 over the previous year, and 202 over 1912.

The following figures show the growth of the schools as a business proposition:—

	Current Expenses.	Repairs and Alterations.	New Buildings.
1916,.....	$921,230.24	$65,635.85	$163,463.98
1912,.....	640,527.83	35,716.10	42,087.33
1907,.....	*373,330.38	*21,552.30	*122,727.70

*11 months only.

Here is a great business affecting directly over 20,000 people, and indirectly every one in the city, a growing business, as indeed are all the departments of civic enterprise in every progressive community. These few trenchant facts will serve to emphasize to some degree the magnitude of our task, while its purpose—the building of an intelligent and capable citizenship—stamps it as of transcendent importance.

PHYSICAL DATA.

The principal evidences of activities carried out during the year are as follows:—

Acushnet Avenue School—The addition of one room in corridor, ventilation and heating to comply with the state laws; seating capacity, 28.

Buckingham School—The addition of four class rooms in corridor and one room on third floor, ventilation and heating to comply with state law; seating capacity, 130. The erection of smoke partitions to comply with new state law.

Lincoln School—Two rooms added, using the remaining available space of assembly hall. Folding partition doors installed so that two rooms can be used for small assembly hall; seating capacity, 84.

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Forest Park School—By erection and removal of partitions, two rooms made into three rooms.

High School of Commerce—Equipment and furniture installed.

One room each in Chestnut Street, Buckingham, Forest Park, and Howard Street schools.

The erection of a two-room portable house at Forest Park School; seating capacity, 84.

Erection of single portable house at Armory Street School; seating capacity, 42.

Worthington Street School—Addition of two class rooms and an office for principal. Installation of bathing facilities for pupils.

Brightwood School—Addition of five regular class rooms, three kindergarten rooms, and an office for principal.

Boston Road School—Addition of teachers' rest room and office, also modern toilet facilities which were urgently needed.

Howard Street School—Addition of two open-air class rooms, two open-air rest rooms, six regular class rooms, two kindergarten rooms, and a combined hall and gymnasium. Shower baths and toilet facilities also installed for pupils.

Chestnut Street School—Alterations on third floor, making three class rooms out of remainder of assembly hall. Toilet facilities for teachers and pupils also installed on this floor.

The Washington School has been started and it is expected that it will be ready for occupancy next September. This building will contain twelve regular class rooms, two kindergarten rooms, and an assembly hall.

Plans have been made and bids received for the proposed Balliet School on upper Carew Street, but no appropriation has as yet been made. The plans are for eight class rooms and an assembly room. This is a one-story building without basement, except for boiler room.

The year has witnessed marked progress in the work of making our school buildings safe from the hazards of fire. The fire prevention work as planned by the City Property Committee is now practically completed. With the completion of the annex and fire-escape at the Worthington Street School, the school buildings of this city will be in excellent condition for the protection of the pupils from fire hazard. All the school buildings are now supplied with sufficient fire exits from all floors, making it easy for pupils to leave the buildings in safety.

The work for fire and smoke prevention consisted of the isolation of the boiler and furnace rooms from stairways and adjacent rooms in the

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basements by the installation of brick or metal lath and hard plaster partitions with metal-covered, fireproof, self-closing doors. All wood partitions were removed or covered with metal lath and hard plaster. The glass in boiler rooms was replaced with wire glass and metal sash. Doors were placed in the basements to the outside, making it easy of egress from several of the buildings. The ceilings in the basements of many of the buildings where there was danger from fire, and the under side of all basement stairways, were covered with metal lath and hard plaster. Metal cabinets were built for electric batteries, switches, etc., and brick enclosures were built in basements for the storage of lumber for the practical arts departments, and metal cabinets for the storage of paints, oils, etc. Fireproof charcoal bins were built in all buildings. The ventilating shaft doors in basements were made smoke and fire proof. Additional fire extinguishers and self-closing receptacles for paper were placed in all buildings.

An addition was placed on the Barrows School, making additional exits from each floor to the fire-escape; and connecting doors were put in between the class rooms on the first floor, and an additional exit from each side of the building for an exit to the ground.

Additional doors were placed at the East Union Street School connecting with the fire-escape placed on this building this year. At the Forest Park School an exterior fire-escape was built connecting the assembly hall and the second floor.

An exit, leading to the roof, and a fire-escape were placed on the Hooker School. At the School Street and Sixteen Acres schools fire-escapes were built, connecting the second floor with the ground. Fire-escapes were built at the Chestnut Street School on both wings of the building, making easy exit from the class rooms and corridors to the ground.

NEW BUILDING RECOMMENDATIONS.

School enrollment has increased so rapidly and promises to continue to increase to such a degree, that present accommodations, both planned and provided for, will if now completed fall far short of meeting our immediate future requirements. It should be noted that fourteen first grade schools in the city are at present on half-time.

Most apparent among our requirements are an addition to the Chestnut Street School; the erection of a school at the corner of High and School streets to replace the State Street Junior High School; provision for a gymnasium for the Central High School; additions to the Homer

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Street and Forest Park schools. The first three of these needs were enumerated by the Mayor in his inaugural address a year ago.

It is realized that conditions unusually difficult to cope with have been in large measure responsible for the delay in schoolhouse construction. It is all the more necessary, therefore, in the opinion of the School Committee, that early steps should be taken toward carrying on the five building projects above referred to.

The lessened pressure upon the high schools, due to the junior high school organization instituted during the present year, and the intensified labor demands affecting especially schools of that type, have combined to make the proposed addition to the Technical High School less immediately urgent than the five building projects which we have here set forth. Should present conditions hold, the Technical High School project might possibly be delayed one year longer.

ACTS OF GENERAL POLICY.

The most notable educational development during the past year has been the reorganization this fall of our grade and high school system, as a result of which the nine elementary grades and four-year high school course, totaling 13 years, have been replaced by a twelve-year plan consisting of six elementary, three junior high school, and three senior high school grades. The advantages of the new arrangement over the old may be briefly summarized as follows:—

1. The shorter elementary course makes the work of the earlier years more definite and more vigorously progressive by bringing nearer the termination of that work through the earlier introduction of the courses of wider scope offered by the junior high school;

2. The junior high school then places before the growing boy and girl concrete tests of their tastes and capabilities and helps them to learn at an earlier period than was before possible just where their particular educational requirements should lead them;

3. The junior high school eliminates the ninth grade, saves a year of the pupil's time, and by its broader and more suggestive curriculum as compared with the equivalent grammar grades under the old system, prevents misdirection in the selection of high school courses leading to a life work;

4. The new plan is a money saver to the city, both because of the year of schooling which it eliminates, and because it relieves senior high school congestion through the housing of junior high pupils in the old grammar school buildings who otherwise would be in the high schools,

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since additions may be made to the grammar school buildings at far less expense than is demanded by the architecture of high school structures. The introduction of this new system has seemed to have universal public approbation and the fall work augurs well for the permanent success of the plan.

Superimposed upon the educational system as just outlined is an additional development—the junior college—which is designed to furnish advanced work to certain groups of high school students. This proposition was advocated by the superintendent in his report for 1916 and was adopted by vote of the board early in the current year. Its purpose and scope may be illustrated by the following description of the various groups of students enrolled.

The first group is made up of those students who have satisfied college entrance requirements and are working for advanced credit toward a college degree in some other institution. Such students are expected to carry a program of five subjects of college grade in accordance with the requirements of the college of their choice.

The second group is made up of those students who intend to work for a degree elsewhere, but who have not satisfied college entrance requirements in all their subjects. Such students may, with the approval of the director, select a program which will complete their college preparation and include one or more subjects of college grade in which college entrance requirements have been satisfied.

The third group is made up of those students who are not working for advanced credit elsewhere, but who, having graduated from high school, desire to carry their education further. Such students choose their programs with the approval of the director. In addition to subjects of college grade, their programs may include high school subjects not already taken. Academic work may be combined with stenography and typewriting (taught at the High School of Commerce) in preparation for a secretarial position, or with work in household economics (taught in Technical or Central High School), or with shop courses (taught in Technical High School).

Students in the City Library training class, with the approval of the City Librarian and the director of the Junior College, may take one or more subjects in the Junior College.

The School Committee feels that the Junior College furnishes evidence of the high character of work which it is possible for Springfield to turn out, and as time goes by it may be found practicable to extend and widen the scope of this work to include advanced study in technical as well as

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academic subjects, and the instruction of teachers who desire to improve their professional standing by doing work of college grade.

DENTAL CLINIC.

A room for this purpose has been fitted up in the northeast basement of the Howard Street School. Before the addition to this school, the room was used as a class room, and is well lighted, heated, and ventilated. In it the Board of Health has partitioned off a waiting room, an operating room, and a laboratory, and has installed the most modern appliances for the work. It remains for the details of management to be adjusted at a conference to be held between the Board of Health and the School Committee.

REGISTRATION.

Chapter 102, of the Acts of 1916, requiring school committees to maintain under the supervision of the attendance department a continuous registration of all children between the ages of five and sixteen years, has necessitated the employment of an additional assistant attendance officer and one clerk. This year this registration has required the correcting of approximately eight thousand addresses in addition to changes of school due to promotion, and more than one thousand new enrollments. Once a year it is necessary to correct the ages on the cards of each of the twenty thousand children enrolled in the schools and to make a report to the State Board of Education. The attendance department has one attendance officer and three assistant officers, or one man to each five thousand pupils. Part of the expense of the additional assistant is met by omitting the annual enumeration of school children which was required by the previous law and which is now taken care of by the attendance officers.

SCHOOL GARDENS.

Three factors contributed this year to the greatly increased efficiency of school and home garden work:—

First, the general interest throughout the country in increasing garden products as an economic and patriotic measure;

Second, the increased amount of instruction that was given to pupils in the early spring before the crops were started;

Third, the increase in skilled supervision during the summer made possible by the appointment of additional garden supervisors and the consequent prevention of disheartening mistakes and failures on the part of young gardeners.

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The summer motto was "A full garden and a clean garden," and much attention was given proper utilization of space by skillful cropping and re-cropping and to the great value of constant cultivation in conserving the moisture as well as in keeping down the weeds.

The School Department had in the field during the summer six garden supervisors directing the work of the 1400 children who undertook the cultivation of home gardens. About 1100 of these young gardeners carried the venture through to a successful issue. The average size of the garden plots was 43 feet by 20 feet, with a total of 22 acres under cultivation. Many parents interested themselves in the gardens of their children and thus received valuable instruction from the supervisors. It is clear that much of the value of this garden work lies in the co-operation of parents and children in carrying on garden projects and that in future such family partnerships in gardening should be encouraged by every possible means.

TUITION RATES.

It has been found necessary to make an appreciable advance in the charges for tuition to pupils coming to our schools from out of the city. The following table will show the increases in rates which run from 20 to 33⅓ per cent increase over the old rates:—

Tuition rates (old).

Grades I to III and kindergarten, $20 per year.
Grades IV to IX, $35 per year.
High and Vocational schools, $100 per year.

Tuition rates (new).

Grades I to IV and kindergarten, $30 per year.
Grades V and VI, $50 per year.
Junior High, $80 per year.
Senior High and Vocational schools, $120 per year.

SALARIES.

During the past year a new salary schedule has gone into effect whereby teachers in our schools are being paid upon a scale more commensurate with the greatly increased cost of living. Springfield has been far behind other cities in this respect, and it is with particular satisfaction that we are able to record the inauguration of the new salary schedule which provides increases roughly approximating 10 per cent.

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HIGH, VOCATIONAL, AND EVENING SCHOOLS.

The congestion which the Central High School has been experiencing for a number of years and which was relieved temporarily during this semester by the reorganization of the school system which prevented the school from receiving an entire class last September, will reach in February the highest mark in many years. At that time the school will have 100 more pupils than it can accommodate. This is of additional moment since there is no longer room in the State Street Junior High School and the High School of Commerce to take care of the overflow. It has been necessary to work out an overlapping program, as a result of which a number of pupils come into the building during the middle of the forenoon and remain for one or two periods after the close of the regular session.

As a further means of relieving congestion, study periods have been abolished. It will be apparent that the congestion will be at its height during the middle of the day, and only by assigning two pupils to the same desk, but one of whom will be occupying it at a given time, has it been possible to work out a plan to serve the needs of the school. This plan is a makeshift and should be regarded as such, and plans for an addition to the building must soon be given serious consideration.

The headship of the department of English, which was vacant for a year, has been filled by the election of Mr. Ralph P. Boas. Mr. Boas is a teacher who has done graduate work at Brown, Chicago, and Harvard universities, and has had several years' experience in college teaching.

The activities of members of the Central High School faculty in the work of the college entrance examination board should be of great interest to citizens of Springfield. Principal Hill has just completed a five-year term on this board as representative of the New England Association of Colleges and Secondary Schools. Mr. McDuffee, head of the department of classics, is a member of a commission of college and secondary school teachers appointed by the board to revise the requirements for entrance to college in Latin, and is the chairman of a sub-committee appointed to fix the requirements in Cicero and Virgil for each of several years to come. Dr. Jessie M. Law, head of the department of history, is the head of a commission appointed by this board, of college and secondary school teachers who are to revise the college entrance requirements in history. Two of the heads of departments of the Central High School are appointed each year as readers of college entrance examination papers, and go to New York for this purpose after the examinations are held in June. Last year, Mr. Knapp, head of the department of mathematics, and Mr. Hall, head of the department of science, were examination readers. Next

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June, Mr. McDuffee, head of the department of classics, and Mr. Boas, head of the department of English, will serve in this capacity. It will also be of interest to note that there are only five public high schools in the United States which in June, 1917, sent to the examinations of the College Entrance Examination Board more candidates than did the Central High School. This board publishes each year a list of the schools whose pupils secure the highest rank in particular examinations. In the examinations of last June, two pupils of the Central High School secured highest rank, one in algebra, and the other in French.

The war and the opening of the junior high school have jointly been the means of relieving the overcrowded conditions formerly obtaining in the Technical High School, and the present enrollment is practically equivalent to the capacity of the building. The possible future needs of the school should, however, not be lost sight of, and an early closing of the war, coupled with the probable growth of the school, will soon make increased facilities imperative. Many of the facilities of the Technical High School can scarcely be improved upon, but it is the feeling of the principal that in the department of science and in the larger department of design-crafts the present equipment is more or less of a makeshift. The school offers many advantages in the way of advanced courses such as fourth-year preparatory mathematics, mechanical drawing, and mechanic arts, advanced credit equivalent to two years of college work having been sometimes given to Technical High School students in these subjects. Midyear graduation makes it possible for much advanced work of this character to be accomplished. The school is not merely doing work preparatory for advanced college work, but also is providing special training in preparation for industrial positions, and it is inevitable that the war will bring new opportunities for the employment of these facilities. Already we hear much discussion about the increased interest in chemical industries and chemical engineering, and the school should be equipped to meet these needs when they arise. Large business firms in the city employing Technical High School graduates have spoken in almost universal commendation of the unusual training which these young men have received. The work in history has been greatly benefited by the material and documents relative to the war which have been supplied the school by the national government.

The unusual feature of the work of the English department has been the inauguration of a course in story-telling for girls in the senior scientific classes, especially preparatory for work with children. So successful has this course been, that pupils enrolled in it have been asked to entertain the children of the city at the library and at various church clubs.

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The Evening School of Trades has had a year of consistent progress and an important feature of its work has been the recently organized classes in the international code preparatory for government radio work.

The High School of Commerce has an increasingly large place to fill in the community because of the extraordinary demand for office employees resulting from the withdrawal of men from business positions by the draft, and also by reason of the urgent needs of the government for help in the federal offices. It is impossible to estimate how great these needs may come to be, and the school should without question be properly equipped to meet this situation. This is one of the first high schools in the state to provide work in physical training according to the plan of the state committee on physical training in the bill which failed to pass the legislature last year. Pupils in the school are now receiving physical training for 90 minutes every other day throughout the school year.

The senior classes for two successive years have for their annual class play given a Shakespearean production, and a pleasant feature of these enterprises has been that they were distinctly successful financially.

On the initiative of the pupils a student council has been organized along the general lines of the councils established in so many colleges. This body has done much to create on the part of pupils a sense of responsibility for the work of the school. Pupils now conduct all their school finances in an economical fashion and according to a definite system which has been distinctly successful.

A feature of the work of the Vocational School has been the evening trade extension classes open to men sixteen years of age or over who are employed in trades in which they desire more advanced training. Illustrating the kinds of work done in these classes, the following will be of interest: shaper work, planer work, drilling, milling machine practice, lathe work, universal grinding, tool making, trade extension drawing, and blue print reading. The printing course includes the following units: composition, stone work, designing, point system, press work, make ready, cutting overlays, mixing inks, color work, paper cutting, and estimating.

The enrollment in the Evening High School shows a big increase in the demand for stenography, typewriting, and French, and a natural decrease in the demand for German, in which no classes were organized this year. The percentage of men under twenty-one years of age has fallen, and there has been a decrease in the percentage of girls attending the school as current high wages have made it possible for parents to keep their girls in the day schools. There have been increases in the percentages of both men and women above thirty years of age. An alumni association has been organized, a constitution adopted, and officers elected. A series of

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talks by business and professional men has been arranged to begin in January and to continue throughout the rest of the evening school year. Speakers will include representatives of our largest business offices and stores, and men who hold positions of responsibility in the city government.

ELEMENTARY SCHOOLS AND KINDERGARTENS.

The unprecedented growth in school population during the past year has forced upon the schools many questions of grading and school assignment. It has necessitated an increase in the number of auxiliary classes for retarded children and has materially increased the size of class room units. In many of our schools the number of pupils assigned to a teacher is now considerably above our former maximum of forty-two. This condition is to be deplored, as an average enrollment in the regular classes of thirty-six pupils to a teacher is as large as is consistent with the best interests of a modern school.

An additional open-air school has been established in the new wing of the Howard Street School building in rooms that were constructed with special reference to the needs of such a school. A rest room adjoins each of the sunny, many windowed class rooms, and on the floor above are located a kitchen and dining room where meals are prepared and served to members of the school. Fifty anæmic children of elementary school age are enjoying the privileges offered by this school and all are gaining steadily in health and vigor.

The kindergarten rooms in the Brightwood School annex have been planned with a view to their use for school and social assemblies when the kindergarten is not in session. The two large class rooms are separated from one another by a folding partition that makes it possible to transform the rooms into a good-sized assembly room. A special entrance from a side street gives direct access to the kindergarten, and ample toilet and cloak room facilities are available. When this hall has been supplied with the requisite number of folding chairs, it will meet the needs of the district as a social center and will serve the school as an assembly hall. A duplication of this arrangement is to be recommended for new buildings designed to accommodate elementary schools and kindergartens.

THE SCHOOLS AND THE WAR.

Our schools have responded splendidly to the exigencies of the war. Sixteen members of the teaching force, an assistant attendance officer, and 454 members and recent graduates of the senior high schools are

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engaged as soldiers, sailors, or as experts directing war activities under federal jurisdiction. In the Second Liberty Loan campaign, the teaching force subscribed to $47,700 of Liberty Bonds, and the three high schools to $67,300. The Red Triangle campaign in the high schools netted $2674.

The kindergarten and first grade pupils are snipping rags for comfort pillows; boys and girls of seven to ten years are knitting squares for hospital afghans; older girls are making garments and comfort kits, knitting, and folding surgical dressings, while the older boys are working overtime to earn money for contributions to the Red Triangle and other war relief funds.

In the junior and senior high schools the work in practical and domestic arts has received special emphasis along economic lines in the endeavor to co-operate with the national food conservation policies. Lessons in the canning of fruits and vegetables and in the de-hydrating of vegetables have been emphasized through repeated experience in performing the operations, and during the spring and fall many demonstrations and lectures on food conservation were given by the teachers of household science to adult patrons of the various schools. High school functions have been curtailed and the money usually spent upon them has been devoted to war charities.

Mr. E. E. MacNary, director of our Vocational School, is doing governmental work of exceptional value as head of the industrial training section of the emergency fleet corporation. His task is to make more efficient ship builders, and at this time when the cry is for ships, ships, and more ships, Springfield has reason to feel proud that we have a representative of our public school system engaged in work of this character.

Mr. A. E. Metzdorf, our Physical Director, is in charge of the entire physical training and recreational work at the Ayer Camp.

GENERAL RECOMMENDATIONS.

These are days when the word economy is on every one's lips, and the school department should not fall behind in any endeavor to conserve and utilize resources to the fullest possible extent. It would seem as though there was great waste of material and of labor during the summer months when our expensive equipment lies idle and our teachers are absent on so long a vacation. Almost all cities of Springfield's class maintain a summer session of six to eight weeks during which attendance is optional. This enables them to accelerate the progress of children through the schools by using school buildings at a season when the expense of upkeep is at the

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minimum. If one quarter or even one eighth of a year's work may be done when schoolhouses require no artificial heat, the economy of such use is evident. Newark, N. J., has embodied the idea of a short summer term by arranging in certain schools of the city four equal terms of twelve weeks each, attendance upon any three terms constituting a year's work. A pupil who attends during four-quarters of each year has the opportunity to complete the work of eight grades in six years and the usual four-year high school course in three years. Many children remain in the city during the summer months, and for those who do remain, attendance at a morning session would not only be no hardship, but a positive advantage both morally and physically.

The extension of summer school facilities where the demand arises would seem to be a logical method of speeding up our educational system to a more efficient point and of utilizing our resources in the most complete and effective way, and the committee feels such a suggestion worthy of serious consideration.

The school committee realizes that our provision for paying teachers absent on sick leave is illiberal, and a questionnaire sent out to leading cities of the country confirms this belief. We favor a more generous treatment of teachers absent because of sickness and have under consideration a revision of the rule with that in view.

RETIREMENT OF MISS CHAMBERLAIN.

Miss Frances B. Chamberlain, who has been assistant supervisor of music in the city schools during the past twenty-two years, resigned from the force in June, 1917. Miss Chamberlain gave of her best to the schools and maintained throughout her long term of service a high standard of accomplishment. Her resignation was deeply regretted by the board and by the teachers with whom she was so long and so pleasantly associated.

RETIRING MEMBER.

Mr. Frederick Harris retires from the committee after nine years of service. It is cause for congratulation when a man of affairs turns aside from the pressing requirements of business life and gives valuable time for work of this character. Mr. Harris has brought to our deliberations a keen and well balanced viewpoint from which both we and the community at large have greatly benefited. He will be missed in the days that are to come.

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Supplementary to this general statement of the administrative activities of the school department this year are the appended tables of statistics and the report of the Superintendent.

Respectfully submitted on behalf of the Board,

EDWARD M. PORTER.

December 28, 1917.

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ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS

To the School Board:—

Your report has embraced so fully the activities of the school department for the year, that I need not repeat statistical and other information already furnished for it from the records in my office. If I refer to topics already discussed, it will be by way of emphasis. Certain of your recommendations are of such far-reaching importance as to warrant restatement and even elaboration.

In my report presented one year ago, I called attention to the gradual elimination of the ninth grade which had taken place through the substitution of high school studies, such as modern foreign languages, commercial arithmetic, Latin, and Algebra, in place of review and unnecessary elaboration of elementary school subjects, and I recommended that this grade which was unknown outside of New England, and which had almost ceased to exist here, be dropped from the printed description of our school organization. At the regular meeting of the school board held on December 30, 1916, this recommendation was approved and the 6–3–3 plan of organization was officially substituted for the 9–4 plan. As already stated, the new organization provides above the kindergarten an elementary school unit of six grades followed by an intermediate or junior high school unit of three grades, and then by the senior high school unit of three grades.

Incidentally this piece of legislation eliminated grammar school graduation, a feature of the old organization which was misleading inasmuch as it conveyed to the child the idea of having completed a course of study and of having reached a suitable stopping place. Since now the diploma, the mark of completion, is reserved, and very properly so, till the pupil has really completed a definite course of study, the new organization suggests

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continuity of work even through the senior high school. Promotion from elementary to junior high, and from junior high to senior high, is without formality. Satisfactory work in any grade or division of the system insures promotion to the next grade or division. The pupil is definitely encouraged to proceed. If, however, he is obliged to leave school at any point below graduation in the twelve year course, he is entitled to a certificate which shall state clearly his attainments at the time of leaving.

The new plan makes for greater definiteness in our conception of elementary education. In the elementary school the tools of education are to be mastered. In the six elementary grades children should learn to read with ease and pleasure prose and poetry within their comprehension; to spell correctly the words of the vocabulary they need to use; to write legibly and with ease; and they should have mastered the fundamentals of arithmetic. Attainments at this stage in geography and history may properly continue as now less definite, since they are not so clearly tools for further education, and since early deficiencies in these studies can more easily be made good. Under the new arrangement of grades, there is unquestionably increased definiteness as to the time that should be devoted to the mastery of those elements of education commonly spoken of as the "Three R's" than was the case under the former plan. A definite goal is set up and standard tests are available to determine in ways equally clear to children and teachers when this goal has been reached.

The new organization provides better than the old for meeting individual needs. It is difficult, if not impossible, in the elementary school, to arrange all promotions on an individual basis. However, the midyear promotion plan in vogue in Springfield reduces to a minimum the disadvantages of promotion by classes. By limiting the elementary school to six grades, we hasten the time in a pupil's school career when he may advance according to his proficiency in given subjects, advancing in all subjects in which he has succeeded, but in case of partial failure, repeating only the subject in which he has failed. The junior high school organization like that of the senior high school permits promotion by subject. This is one of its great advantages over the former plan.

There is general agreement as to what shall constitute the elements of education that must be possessed alike by all in a democracy like ours. These have been referred to as "the tools of education." When these tools have been acquired, however, it is no longer in the interest either of

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the individual or the public that all pupils be held to a uniform type of further education. All varieties of taste and talent are to be encouraged and cultivated if we wish to enable our schools to make their maximum contribution to a truly co-operative society, hence as soon as the common basis of knowledge and ideals which elementary education can contribute has been secured, it is desirable to provide a testing ground for aptitudes of all kinds. In earlier days the varied activities of the home and community, in all of which children participated, served this purpose, and the task of the school was relatively light. What the home lacks in educational resources the schools must now as in former times supply. Then the need was chiefly the "Three R's"; now this restricted demand is the least among the many that the schools must meet. Besides furnishing this firm foundation, they are called upon to supply the means to test children's aptitudes and then to conduct the further education of individuals along lines which in each case give greatest promise of a successful career for the individual and greatest value to the community from the service which the individual, through his school training, may be fitted to render.

The junior high school in its earlier grades is designed to furnish a try-out opportunity so that when final choice of a course of study is made, it may be made with some conception of the kind of life career to which it leads. In other words, its early purpose is that of vocational guidance, of which we have heard so much in recent years.

Children enter the seventh grade, or junior I, at about the age of twelve or thirteen. Till this time they have studied and recited under the supervision of a single teacher. They are still in most things responsible to a single teacher in a room known as the home room, but they recite in one or more subjects to another teacher. This gives them a limited introduction to the fully developed departmental system which they will encounter in junior III and the senior high school. They have now entered upon a period of increased self-direction, but as yet the range of choice in studies and courses is quite limited. The only new study is a modern foreign language—German or French—and this is an elective. In this subject no home study is required and the daily exercise is only twenty minutes in length. After a half year or at most a year in a class so conducted, it is easy to determine which pupils may hope to continue the subject with success. For those who continue a modern language in later grades, after this sifting process has taken place, a longer recitation period is provided.

In the first year of the junior high school only two courses are open

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to choice—the general course and the practical arts course. Both courses contain the same subjects, including the modern language elective, but they approach their goal by different routes. In the general course, manual training occupies only two periods per week, and book work predominates. In the practical arts course, shop work for boys and household arts for girls of considerable variety is the daily medium through which the academic content of the course is approached. The pupil spends approximately one third of each day in the shop. A considerable amount of the arithmetic, spelling, composition, geography, and nature study is covered by exercises which we call "related work," growing directly out of the shop and household arts projects in which the boys and girls are engaged each day. Not all the academic work is covered in this way, but enough of it is so covered to give it a very practical setting, and by this method boys and girls who do not learn readily from the printed page alone and who, under the ordinary plan, constitute a large percentage of the laggards and failures, make as complete mastery of the academic portion of the course as do those originally more highly gifted in the mastery of symbols. Often they are not less highly gifted, if we consider their total general ability, their "common sense." They only seem so when we limit their approach to academic subject-matter to the one avenue, the printed page. Is it not highly probable that the notable successes of which we have innumerable examples from the past, were due to a similar linking up of the theoretical with the practical which the daily life of children of earlier times afforded?

We cannot fully reproduce in our schoolrooms the varied opportunities for practical education which neighborhoods themselves once afforded. In the first place the requirements of modern industrial life are too varied to permit us to install in our schoolrooms more than a few of the most typical examples, and in the second place the expense of this type of education is very much greater than that of the purely or largely academic. A class-room equipment consisting of books involves little expense. Not so with either equipment or material for a course in practical arts. Furthermore, our shop groups must be smaller than class-room groups: a shop instructor can hardly do justice to more than fifteen or sixteen pupils at a time, whereas we assign to an academic teacher twice that number and often more. Another element of added expense is the salary cost of properly equipped shop instructors. In this line of activity we have to compete with the industrial shop, for only men who know how to turn out work by shop methods and who could easily secure employment in industrial shops can meet our need in the practical arts courses. We

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cannot secure such men for less salary than they could earn in the trades. It is for the school board to say whether we shall allow all children who desire this type of education to receive it. The demand is increasing. When practical arts courses were first offered, they were looked upon by pupils and parents with some doubt, and principals found it necessary to urge their advantages. Now we are embarrassed by the numbers who choose them. All evidence at hand points to the value of the work, but we may as well face the fact that the cost per pupil of courses in practical arts is nearly twice that of the more traditional work. The practical arts course as outlined continues through the three years of the junior high school and prepares for entrance to one or more courses in the senior high school.

No new study is offered in either the general course or the practical arts course below junior IIA when Latin may be begun by pupils in the general course. Here also algebra takes the place of arithmetic after the first ten weeks. In substituting algebra for arithmetic for the remaining ten weeks of the semester, we afford a mathematical try-out similar in purpose to that previously referred to in the case of French or German. Each child in the general course is given ten weeks in which to find out whether this type of education, through manipulation of symbols, fits his type of mind. Compulsion goes no further.

In the third year of the junior high school, the year corresponding to the former high school freshman year, two additional courses are offered, the college preparatory and the commercial. By this time most pupils have a pretty definite notion as to which of the courses they want to enter or continue, and their parents, having had two years in which to study the explanatory literature sent to the home of each pupil in the VIA grade, are in a position to exercise intelligent control of the pupil's choice. A year later the pupil's final choice takes him to one of our three senior high schools. After the many try-out opportunities of the junior high school, this choice should be based upon such mature judgment as to be thoroughly in accord with the pupil's tastes and aptitudes, and in future we should not find so many as formerly desiring transfer from one senior high school to another.

The supervision of the subjects formerly taught only in the high school but now begun in the junior high school, has constituted a problem of great importance, and yet one which has proved easy of solution and not by any means expensive. The supervision conducted by certain heads of departments in the senior high schools has simply been extended downward to follow their special subjects. In some cases this responsibility

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is carried outside of regular school hours, while in other cases certain high school periods are left open and this free time is devoted to junior high school supervision. The special help in English teaching needed by the junior high school teachers, at first in junior III, now in junior I, II, and III, has been assigned to Mr. Edward H. Webster of the Technical High School; Dr. Jessie M. Law of the Central High School holds regular meetings with the junior III teachers of community civics; Miss Elizabeth Kilgour of the Central High School, representing the modern language departments of all three high schools, and in close consultation with their heads, supervises the teaching of German and French; Mr. Walter V. McDuffee of the Central High School has charge of junior high school Latin; Mr. Howard C. Kelly of the High School of Commerce has supervision of the junior III science; Mr. Harry B. Marsh of the Technical High School and Mr. Allen H. Knapp of the Central High School outline the work in algebra; Mr. Guy D. Miller and Mr. Stanley O. Smith of the High School of Commerce direct special work, the one in commercial arithmetic, the other in penmanship. All of these teachers had responsibility for exactly this supervision when the work was all done in high school buildings. It seems, therefore, the most natural procedure possible to have them follow the work wherever it is now done. The solidity of the work in these special high school subjects is guaranteed in large measure by this scheme of supervision. Plans which can now be put into operation under the schedule of junior high school salaries just adopted will still further safeguard the work in question.

The new schedule provides a maximum salary under which it will be possible to secure college graduates of experience and success to fill vacancies as they occur. It should not, however, operate to displace teachers of superior technical skill, not college graduates, who under the close supervision already described are now doing acceptable work in the junior high school grades. They should be encouraged to qualify for the new salary scale by securing as early as may be qualifications equivalent to college graduation requirements in the subjects they wish to teach. This they could accomplish in any one of the following four ways, or by combining two or more of these ways: (1) summer school work of college grade; (2) extension courses offered by the State; (3) courses offered by the Springfield Teachers' Club; (4) courses which the school department might offer under the general direction and authority of the Springfield Junior College. For this purpose the faculty of the junior college would be enarged to include any instructors in Springfield or elsewhere who might be needed to give courses. The junior college faculty thus enlarged will af-

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ford exactly the organizing agent needed to evaluate college credits already claimed by teachers as well as those which they may gain through the means just enumerated and to organize and carry on any courses which from time to time it may seem desirable to give under the auspices of the school department. Since college requirements differ somewhat widely, it will be necessary at an early date to draw up a statement of minimum requirements in each subject which the school committee will set up as its standard to be met by non-college graduates in the teaching force who desire to be placed on the new salary schedule. I have already taken preliminary steps in this direction and shall be able, I think, at the next meeting of the board to present a set of standards for your approval.

The value of the junior college as an organizing and centralizing agency in work above high school grade is further indicated by the report of the board where the suggestion is made that the work of the junior college might well be widened and extended to include advanced study in technical as well as academic subjects. Before the junior college was formally approved by the school board, I had carried on an extensive correspondence with colleges of liberal arts for the purpose of learning in advance to what extent we could count upon the recognition of the work of the college, should it be established. The replies being almost without exception favorable, the board felt justified in making this addition to our school organization. It will now be my duty to conduct a similar inquiry among the higher institutions for technical education in order to learn what courses among those which our resources enable us to offer will be credited in these institutions if we decide to give them. I shall hope to be able to report the results of this correspondence at an early date.

It seems advisable, too, for me to take measures to forecast the demand which I have no doubt exists for the opening of a summer session in certain of our elementary, junior high, and senior high school buildings, as recommended in your report. By means of a questionnaire this can be done with sufficient certainty, I am sure, to enable us to designate buildings conveniently located to meet the probable demand and to determine approximately the number of teachers required, thus giving the finance committee data which they will need in forecasting the size of the appropriation required to carry on the enterprise.

The year covered by this report has brought under consideration an unusually large number of administrative and professional problems, consequently the work has been highly stimulating and has called forth the best efforts of the entire teaching force. It is gratifying to be able to say that no single plan among the many that have been instituted has

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gone awry. On the contrary, thanks to the co-operative spirit of my co-workers, the year closes with the new organization, the modified courses of study, and the administrative and supervisory arrangements necessary to safeguard all that has been done, in good working order. The forward looking legislation enacted at this meeting gives promise of another year at least as full as this has been of new and stimulating problems.

Respectfully submitted,

JAMES H. VAN SICKLE,
Superintendent of Schools.

December 28, 1917.

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ANNUAL REPORT

OF THE

SCHOOL ATTENDANCE OFFICER

To the School Board:—

I have the honor to present herewith the report of the work of the Attendance Officers for the current year:—

Number of visits to stores and factories,	228
Number of visits to moving picture houses and theaters,	6
Number of visits to hotels,	7
Number of visits to bowling alleys,	3
Number of visits to roller skating rinks,	2
Number of minors found illegally employed,	171
Number of visits to school buildings,	1,828
Number of cases reported from schools,	12,347
As follows: for absence, 10,469; truancy, 704; tardiness, 408; school offenders, 41; non-attendants, 22; newsboys, 1; evening school pupils, 702.	
Number of children found,	1,164
Upon investigation it was found that 869 were absentees; 94 were truants; 3 were school offenders; 11 were tardy children; 187 were non-attendants.	
Of the children found, 45 absentees, 10 truants, 13 non-attendants, 4 newsboys, were taken to their homes; and 43 absentees, 63 truants, 1 school offender, 5 tardy children, 1 evening school pupil, were taken to school.	
Number of visits made to homes,	16,214
Divided as follows: for absentees, 13,560; truants, 998; tardiness, 275; school offenders, 55; non-attendants, 255; newsboys, 48; evening school pupils, 1,023.	
Number of individual absentees,	6,384
Heads of families warned by letter that they would be prosecuted unless their children were sent to school regularly,	45
Heads of families prosecuted for neglecting to cause children under their control to attend school regularly,	15
Number of pupils truant,	578
Number of truancies,	933
Number of days of truancy,	908
Number prosecuted as habitual truants,	13

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Number committed to the Training School,	6
Number of cases continued from day to day for sentence,	8
In addition to the boys committed to the Hampden County Training School, one boy who was on parole had his parole revoked and was returned.	
Number of school offenders prosecuted,	2
Number of school offenders committed to the Hampden County Training School,	1
Prosecutions against persons for inducing children to absent themselves from school,	1
Number of children not attending any school,	252
Of these 65 were reported, and 187 were discovered by the attendance officers.	
These cases were disposed of as follows:—	
213 have entered school; 12 were sick and physician's certificates were received; 11 left town; 12 were under age; 4 received employment certificates.	
Heads of families prosecuted for neglecting to cause children under their control to attend school,	3
Number of boys licensed for street trades, during the year,	142
Letters sent employers calling their attention to the evening school attendance laws,	55
Number of minors warned by letter for not attending evening school,	2
Number of evening school pupils prosecuted for not attending evening school,	14
Number of individual children whose names appeared on the attendance officer's record for the year,	7,394
Number of certificates issued during the past year,	10,599
Employment certificates, 3,026	
Educational certificates, 6,993	
Educational certificates (illiterate), 580	
Persons warned by letter for employing minors without certificates,	1
Firms warned by letter for not returning certificates in accordance with the state law,	7
Firms warned by letter for employing minors without certificates,	5
Prosecutions against firms for failure to return employment certificates as required by law,	1
(Penalty imposed ten dollars.)	
Prosecutions against minors for altering employment certificates,	2
Prosecutions against bowling alleys for the illegal employment of minors,	1
(Penalty imposed fifteen dollars.)	
Managers of roller skating rinks warned by letter regarding the employment and admission of minors to the rink,	1

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Prosecutions against roller skating rinks for admitting boys under seventeen years to the rink, (Penalty imposed five dollars.)	1
Prosecutions against theaters for admitting boys under fourteen years of age to the theater after six o'clock in the evening, (Penalty imposed ten dollars.)	1
Prosecutions against persons for selling cigarettes to boys under eighteen years of age,	1
Number of cases referred to the Hampden County Children's Aid Association,	14
Number of cases referred to the Health Department,	2
Number of cases referred to the Union Relief Association,	8
Number of cases referred to the School Nurse,	35
Number of cases referred to the Department of Charities,	2

The above figures are for nine months instead of ten, owing to the delay in opening school because of the epidemic of infantile paralysis. The work was further handicapped by the absence of Mr. Madison, who was at the Mexican border about two months of the fall term and preparing to leave for France two months and a half in the spring term.

The number of pupils truant was slightly in excess of that of last year, 578 against 566, and the number of truancies increased from 880 to 933, but the number of days of truancy decreased from 936 to 908, showing that the average duration of each truancy this year was less than one day. This average would have been still smaller, except that one school with 108 days of truancy, about twelve per cent of the total, averaged nearly three days to each truancy. When a pupil has been truant once it is well to notify the attendance department the first session that he is absent. The new County Training School for the care of truants is practically completed and will probably be occupied about January 1, 1918. There is urgent need of this for, at the present time (December, 1917), there are sixty boys in the old building which has accommodations for only thirty-two. The increase in the number of boys it has been necessary to commit to the Training School seems to be due to the general unrest caused by the war. Habitual truancy is not a result, as is sometimes supposed, of the necessity for boys to work off their surplus energy but is the result of their inability to concentrate their attention or apply themselves steadily to one task. This may be due to a number of causes such as improper nutrition, lack of proper training, or anything that produces a nervous or excitable condition. Therefore, anything that tends to interfere with the regular routine of school work is apt to be a disturbing factor.

There has been a large increase in the number of employment and educational certificates issued, amounting to seventy-five per cent in the

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case of employment certificates for children between fourteen and sixteen years of age. The percentage of increase in the number of children to whom these certificates were issued has been less than half as great, indicating that the restless spirit of the children is manifested not only in the matter of school attendance but also in the frequency with which they change their "jobs." It was not uncommon for boys to have five or six certificates during the year, for as many places, and one boy had fifteen places in less than nine months and at that did not work during July and August. The boys who changed most frequently were usually the ones whose attendance at school had been irregular. Boys who return to school between "jobs" seldom fit into the regular classes or are interested in the work. I am inclined to think that a practical arts class located somewhere in the center of the city, especially for these boys, would relieve the regular schools and be a benefit to the boys.

This has been the first year that we have kept the continuous registration which the provisions of Chapter 102 of the Acts of 1916 substituted for the school census. The statistics of April 1, 1917, show the normal increase in the number of children that we would have expected under the old form of census. This registration involves a vast amount of detail, in correcting cards for changes of schools due to promotions and changes of addresses, for children going to work, removing cards of children leaving town, adding new cards for children moving into town or becoming five years of age. Undoubtedly it will be better done when the teachers become accustomed to accounting for every pupil and doing it without sending duplicate notices of enrollment, dismissal or transfer, which cause as much confusion as failure to furnish any notice.

We are indebted this year, as in previous years, to the School Nurses, the Children's Aid Society, the Union Relief Association, and other social agencies of the city for assistance in carrying on our work.

Respectfully submitted,

JOHN A. PARKER,
Chief Attendance Officer.

December 28, 1917

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STATISTICS

ACCOMPANYING

Superintendent's Report.

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TABLE SHOWING VALUE OF LAND AND BUILDINGS AND EQUIPMENT.

SCHOOLS.	Land.	Buildings.	Total.
Acushnet Avenue,	$16,000.00	$46,188.94	$62,188.94
Alden Street,	3,800.00	14,509.63	18,309.63
Armory Street,	8,500.00	145,758.47	154,258.47
Barrows,	18,700.00	44,842.44	63,542.44
Boston Road,	1,500.00	12,229.02	13,729.02
Brightwood	6,500.00	146,075.61	152,575.61
Buckingham,	45,000.00	165,915.22	210,915.22
Carew Street,	18,000.00	46,231.99	64,231.99
Carlisle,	3,000.00	200.00	3,200.00
Central High,	172,800.00	350,855.55	523,655.55
Central Street,	20,000.00	77,222.05	97,222.05
Central Street,	.....	1,112.59	1,112.59
Charles Street,	4,000.00	14,390.44	18,390.44
Chestnut Street,	41,000.00	267,298.69	308,298.69
Dry Bridge,	1,000.00	3,096.33	4,096.33
Eastern Avenue,	5,400.00	30,461.42	35,861.42
East Union Street,	5,000.00	24,533.81	29,533.81
Emery Street Shop and Storehouse,	7,000.00	47,513.90	54,513.90
Five Mile Pond,	500.00	2,000.00	2,500.00
Forest Park,	30,000.00	94,470.00	124,470.00
Glenwood,	2,500.00	16,548.45	19,048.45
High School of Commerce,	174,200.00	736,748.24	910,948.24
Homer Street,	12,000.00	37,210.11	49,210.11
Hooker,	148,600.00	60,857.24	209,457.24
New Hooker,	29,500.00	119,525.10	149,025.10
Howard Street,	38,600.00	196,797.01	235,397.01
Grammar, I. O.,	6,500.00	186,104.97	192,604.97
Primary, I. O.,	3,000.00	12,678.66	15,678.66
Jefferson Avenue,	7,500.00	41,253.05	48,753.05
Kensington Avenue,	10,500.00	98,504.72	109,004.72
Lincoln,	24,000.00	90,404.92	114,404.92
Portables,	.....	4,225.00	4,225.00
Rushville Portable,	.....	3,482.84	3,482.84
School Street,	35,500.00	20,276.56	55,776.56
Sixteen Acres,	500.00	2,587.17	3,087.17
State Street,	69,000.00	78,188.78	147,188.78
Strickland,	5,000.00	20,771.18	25,771.18
Sumner Avenue,	49,000.00	60,100.14	109,100.14
Tapley,	22,000.00	70,743.34	92,743.34
Technical High,	116,700.50	280,744.85	397,445.35
Vernon Street Office Building,	42,900.00	3,155.53	46,055.53
Vocational,	79,800.00	43,883.33	123,683.33
Wachogue,	800.00	200.00	1,000.00
Washington,	.....	10,312.49	10,312.49
Washington Portable,	.....	3,546.96	3,546.96
White Street,	14,000.00	49,915.48	63,915.48
William Street,	14,000.00	58,377.31	72,377.31
Worthington Street,	12,000.00	66,981.84	78,981.84
	$1,325,800.50	$3,909,031.37	$5,234,831.87
Operating Equipment:—			
Furniture and Fixtures,		$172,604.17	
Miscellaneous,		17,118.19	189,722.36
Books and Educational Equipment,			217,034.53
			$5,641,588.76

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FINANCIAL SUMMARY.

(For the fiscal year ending November 30, 1917).

	Appropriations.	Plus or Minus Transfers.	Net Appropriations.	Expenditures.	Balances.
Administration,	$25,587.67	—$419.19	$25,168.48	$25,168.48	
Central High School,	82,375.00	—6,411.24	75,963.76	75,963.76	
Technical High School,	94,533.97	—5,755.44	88,778.53	88,778.53	
Evening School of Trades,	8,036.00	—793.81	7,242.19	7,242.19	
High School of Commerce,	82,044.16	—2,676.17	79,367.99	79,367.99	
Evening High School,	7,914.00	—1,370.72	6,543.28	6,543.28	
Vocational School,	21,506.00	—5,083.08	16,422.92	16,422.92	
Vocational Evening School,	382.00	35.65	417.65	417.65	
Vocational Special,	150.00	—50.00	100.00	100.00	
Open-Air School,	3,185.00	218.96	3,403.96	3,403.96	
Graded Schools,	504,863.50	23,029.40	527,892.90	527,831.63	$61.27
Kindergartens,	34,021.00	—436.37	33,584.63	33,584.63	
Elementary Evening Schools,	7,313.00	—1,581.17	5,731.83	5,731.83	
Total,	$871,911.30	—$1,293.18	$870,618.12	$870,556.85	$61.27
*Schoolhouse Property,	225,670.13		225,670.13	224,942.43	727.70
Total,	$1,097,581.43	—$1,293.18	$1,096,288.25	$1,095,499.28	$788.97
High Schools Lunch,	32,500.00	193.18	32,693.18	32,693.18	
Total,	$1,130,081.43	—$1,100.00	$1,128,981.43	$1,128,192.46	$788.97

*Under control of City Property Committee of City Government.

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EXPENDITURES

ADMINISTRATION.

Salaries.		
Superintendent,	$5,000.00	
*Assistant Superintendent,	1,000.00	
Secretary of School Committee,	100.00	
Chief Clerk,	2,400.00	
Clerks,	5,166.12	
Attendance Officers,	4,815.98	
		$18,482.10
Stationery and Office Supplies,		347.13
Printing,		881.68
Advertising,		92.83
Communication Service.		
Postage,	599.43	
Telephone,	62.28	
Telegraph,	6.48	
		668.19
Transportation Service.		
Freight and express,		20.85
Miscellaneous Supplies and Expenses.		
Auto upkeep,	250.00	
Magazine subscriptions,	45.40	
Newsboys' badges,	36.36	
Miscellaneous,	22.92	
		354.68
Traveling Expenses,		374.88
Maintenance and Repairs of Equipment,		3.80
Replacement of Equipment,		150.00
New Equipment,		476.16

STOREHOUSE.

Salary—Clerk,		950.00
Expenses.		
Assistance,	519.40	
Telephone,	61.98	
Delivering supplies,	1,728.53	
Miscellaneous,	56.27	
		2,366.18
		$25,168.48

*In addition to salary as Supervisor of Elementary Schools and Kindergartens, which is included in item, "Salaries—Supervisors," under the account in Graded Schools.

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CENTRAL HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal,			$3,700.00
Salaries—Clerical Assistance,			970.28
Office Supplies,			100.50
Printing,			461.65
Communication Service.			
Postage,		$116.98	
Telephone,		9.90	
			126.88
Transportation Service.			
Freight and express,			1.76
Miscellaneous Supplies and Expenses,			15.00
Traveling Expenses,			75.56

OPERATION.

Salaries—Teachers.			
Heads of departments,		14,630.00	
Teachers,		49,361.82	
			63,991.82
Miscellaneous Assistance.			
Laboratory,		90.21	
Drawing,		43.18	
Physical training,		172.20	
Office,		72.25	
Piano accompanist,		16.67	
			394.51
Books.			
Text,		1,790.13	
Reference,		197.72	
Magazine subscriptions,		16.30	
Binding,		93.51	
Covers,		32.41	
			2,130.07
Stationery Supplies.			
Paper.			
White,	$203.25		
Manila,	313.10		
Drawing,	117.42		
Notebooks,	335.45		
Envelopes,	2.24		
Blotting,	8.46		
Pressboard and cardboard,	245.78		
Miscellaneous,	204.29		
		1,429.99	
Ink,		9.25	
Paste, etc.,		.87	
Pencils,		91.20	
Pens and holders,		56.32	
Thumb tacks and paper fasteners,		13.79	
Rubber erasers,		14.50	
Rubber bands,		6.36	
Miscellaneous,		4.70	
			1,626.98

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Supplies and Materials Used in Special Courses.			
Science.			
Small glassware and other small laboratory articles,		$101.18	
Chemicals,		52.71	
Miscellaneous,		124.60	
			$278.49
Domestic Science.			
Cookery.			
Provisions,	$104.48		
Miscellaneous,	27.14		
		131.62	
Sewing supplies,		33.15	
			164.77
Physical Training,			76.62
Drawing.			
Paints,		35.70	
Paint pans and brushes,		34.83	
Drawing crayons,		6.30	
Miscellaneous,		134.42	
			211.25
			$731.13
Other Operating Supplies.			
Outline maps,			11.80
Maps, charts and globes,			9.00
Chalk,			21.23
Paper towels,			355.92
Linen towels,			8.25
Miscellaneous,			2.20
			408.40
Other Operating Expense.			
Graduation expenses,			156.62
Tuning and rent of pianos,			71.75
Miscellaneous,			31.00
			259.37
Maintenance and Repairs of Equipment.			
Science,			42.34
Domestic science,			7.50
Miscellaneous,			.50
			50.34
Replacement of Equipment.			
Science,			551.83
New Equipment.			
Science,			365.93
Miscellaneous,			1.75
			367.68
Total,			$75,963.76

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TECHNICAL HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal,		$3,600.00
Salaries—Clerical Assistance,		1,618.00
Office Supplies,		81.31
Printing,		783.91
Communication Service.		
Postage,	$62.00	
Telephone,	28.50	
		90.50
Transportation Service.		
Freight and express,		20.24
Miscellaneous Supplies and Expenses,		15.00
Traveling Expenses,		24.23

OPERATION.

Salaries—Teachers.			
Heads of Departments,		$19,539.50	
Teachers,		53,627.67	
			73,167.17
Miscellaneous Assistance.			
Tool room,		399.34	
Household science,		8.00	
Drawing,		4.25	
Laboratory,		17.95	
Design,		6.95	
Physical training,		89.04	
Piano accompanist,		16.67	
Miscellaneous,		37.85	
			580.05
Books.			
Text,		1,398.24	
Reference,		120.17	
Magazine subscriptions,		21.50	
Binding,		105.40	
Covers,		162.97	
Mending materials,		4.50	
			1,812.78
Stationery Supplies.			
Paper.			
White,	$125.40		
Notebooks,	324.50		
Envelopes,	4.98		
Blotting,	18.75		
Pressboard and cardboard,	5.38		
Miscellaneous,	4.25		
		483.26	
Ink,		23.01	
Paste, etc.,		2.30	
Pencils,		35.74	
Pens and holders,		46.60	
Thumb tacks and paper fasteners,		38.05	
Rubber erasers,		1.05	
Rubber bands,		4.59	
Miscellaneous,		4.35	
			638.95

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Materials and Supplies Used in Special Courses.			
Chemistry and Physics.			
Small glassware and other small laboratory articles,	$166.75		
Chemicals,	97.04		
Miscellaneous,	126.49		
		$390.28	
Drawing.			
Small drawing tools,	12.53		
Paper, pencils and ink,	617.88		
Miscellaneous,	11.70		
		642.11	
Machine Shop.			
Small tools,	68.69		
Castings and metals,	239.92		
Miscellaneous,	134.08		
		442.69	
Wood Working.			
Lumber,	442.55		
Small tools,	51.29		
Miscellaneous,	169.53		
		662.37	
Household Science.			
Provisions,	236.72		
Miscellaneous,	62.13		
		298.85	
Household Arts.			
Sewing supplies,	112.27		
Miscellaneous,	24.61		
		136.88	
Design.			
Small tools,	75.10		
Miscellaneous,	238.02		
		313.12	
Forging.			
Coal,	188.00		
Metals,	412.73		
Miscellaneous,	4.64		
		605.37	
Physical Training,		210.66	
			$3,702.33
Other Operating Supplies.			
Compasses,		67.00	
Paper towels,		599.48	
Miscellaneous,		58.19	
			724.67
Other Operating Expenses.			
Graduation expenses,		139.61	
Firing kiln,		33.12	
Miscellaneous,		48.66	
			221.39
Maintenance and Repairs of Equipment.			
Chemistry and physics,		87.75	
Machine shop,		19.29	
Wood work,		57.03	
Household arts,		36.00	
Design,		75.00	
Forging,		5.77	
Gymnasium,		11.41	
Miscellaneous,		16.00	
			308.25

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Replacement of Equipment.		
Chemistry and physics,	$4.43	
Drawing,	89.92	
Machine shop,	11.27	
Wood work,	27.00	
Gymnasium,	12.66	
Miscellaneous,	89.25	
		$234.53
New Equipment.		
Chemistry and physics,	141.68	
Drawing,	90.34	
Machine shop,	103.82	
Wood work,	505.28	
Household science,	63.85	
Design,	19.27	
Physical training,	137.75	
Miscellaneous,	93.23	
		1,155.22
Total,		$88,778.53

EVENING SCHOOL OF TRADES.

ADMINISTRATION.

Salary—Principal,		$450.00
Salaries—Clerical Assistance,		186.00
Printing,		25.12

OPERATION.

Salaries—Teachers,		5,600.00
Miscellaneous Assistance.		
Tool room,	$105.75	
Collecting fees,	20.00	
		125.75
Supplies and Materials Used in Special Courses.		
Machine shop,	78.50	
Electricity,	105.38	
Plumbing,	124.14	
Wood work,	42.78	
Sewing,	46.42	
Cookery,	64.52	
Design,	15.00	
		476.74
Other Operating Supplies,		212.00
Other Operating Expenses,		95.31
Replacement of Equipment,		2.52
New Equipment,		68.75
Total,		$7,242.19

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HIGH SCHOOL OF COMMERCE.

ADMINISTRATION.

Salary—Principal,			$3,650.00
Salaries—Clerical Assistance,			1,095.15
Stationery and Office Supplies,			36.27
Printing,			559.24
Communication Service.			
Postage,		$30.00	
Telephone,		18.93	
			48.93
Transportation Service.			
Freight and express,			4.83
Miscellaneous Supplies and Expenses,			7.00
Traveling Expenses,			31.59

OPERATION.

Salaries—Teachers.			
Heads of Departments,		9,852.50	
Teachers,		50,651.17	
			60,503.67
Salaries—Matron,			743.00
Salaries—Miscellaneous.			
Moving pictures,		289.25	
Laboratory,		9.87	
Physical training,		126.39	
Bookkeeping,		50.00	
Piano accompanist,		16.66	
Miscellaneous,		11.95	
			504.12
Books.			
Text,		1,517.84	
Reference,		312.40	
Magazine subscriptions,		65.13	
Binding,		83.81	
Mending materials,		18.75	
Covers,		79.19	
			2,077.12
Stationery Supplies.			
Paper.			
White,	$350.00		
Manila,	45.00		
Drawing,	29.65		
Bookkeeping,	1,025.34		
Notebooks,	487.19		
Blotting,	28.43		
Typewriting,	519.71		
Pressboard and cardboard,	64.50		
Miscellaneous,	220.64		
		2,770.46	
Ink,		107.50	
Paste, etc.,		5.90	
Pencils,		115.50	
Pens and holders,		84.50	
Thumb tacks and paper fasteners,		76.57	

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Rubber erasers,		$7.50	
Rubber bands,		5.40	
Rules,		30.00	
Typewriter ribbons,		81.58	
Miscellaneous,		4.00	
			$3,288.91
Supplies and Materials Used in Special Courses.			
Laboratory.			
Small glassware and other small laboratory articles,	$54.89		
Chemicals,	25.85		
Miscellaneous,	34.46		
		115.20	
Shop.			
Lumber,	298.52		
Small tools and hardware,	130.87		
Miscellaneous,	51.00		
		480.39	
Cookery.			
Provisions,	624.98		
Miscellaneous,	56.67		
		681.65	
Sewing,		176.81	
Salesmanship,		46.76	
Physical Training.			
Laundry,	605.50		
Miscellaneous,	319.59		
		925.09	
			2,425.90
Other Operating Supplies.			
Paper towels,		324.50	
Outline maps,		70.53	
Miscellaneous,		193.69	
			588.72
Other Operating Expenses.			
Moving pictures,		520.71	
Graduation expenses,		147.38	
Miscellaneous,		6.75	
			674.84
Maintenance and Repairs of Equipment,			22.45
Replacement of Equipment.			
Laboratory,		182.60	
Typewriters,		2,040.00	
Miscellaneous,		31.25	
			2,253.85
New Equipment.			
Laboratory,		403.75	
Shop,		76.37	
Cookery,		2.48	
Salesmanship,		4.84	
Miscellaneous,		364.96	
			852.40
Total,			$79,367.99

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EVENING HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal,			$335.00
Salaries—Clerical Assistance,			137.50
Stationery and Office Supplies,			3.04
Printing,			95.85
Communication Service.			
Postage,			18.00

OPERATION.

Salaries—Teachers,			5,086.50
Books.			
Text,		$418.67	
Binding,		17.34	
			436.01
Stationery Supplies.			
Paper.			
White,	$11.00		
Typewriter,	62.18		
Drawing,	2.00		
Bookkeeping,	10.25		
Notebooks,	64.04		
Blotting,	1.15		
Pressboard and cardboard,	2.15		
Cross section,	88.56		
Miscellaneous,	57.82		
		299.15	
Pencils,		1.80	
Pens and holders,		9.28	
Thumb tacks,		.50	
			310.73
Supplies and Materials Used in Special Courses.			
Cookery,			8.52
Other Operating Supplies,			53.65
Other Operating Expenses.			
Graduation expenses,		36.18	
Drawing models,		22.00	
			58.48
Total,			$6,513 28

VOCATIONAL SCHOOL.

ADMINISTRATION.

Salary—Principal,			$1,824.00
Salaries—Clerical Assistance,			782.00
Stationery and Office Supplies,			9.68
Communication Service.			
Postage,		$49.25	
Telephone,		14.49	
			63.74
Transportation Service.			
Freight and express,			13.74

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OPERATION.

Salaries—Teachers,			$10,218.65
Salaries—Miscellaneous,			47.23
Books.			
Text,		$7.58	
Reference,		4.25	
Magazine subscriptions,		18.75	
			30.58
Stationery Supplies.			
Paper.			
White,	$20.14		
Manila,	9.20		
Drawing,	5.10		
Envelopes,	10.95		
Blotting,	.34		
Miscellaneous,	.35		
		46.08	
Ink,		3.22	
Paste, etc.,		2.95	
Pencils,		13.83	
Pens and holders,		11.86	
Thumb tacks and paper fasteners,		3.96	
Rubber erasers,		1.44	
			73.34
Materials and Supplies Used in Special Courses.			
Printing.			
Paper and cardboard,	76.85		
Miscellaneous,	195.87		
		272.72	
Carpentry.			
Lumber,	246.25		
Hardware,	59.30		
Miscellaneous,	36.68		
		342.23	
Cabinet.			
Lumber,	125.77		
Hardware,	57.25		
Miscellaneous,	22.99		
		206.01	
Pattern.			
Hardware,	1.00		
Miscellaneous,	2.19		
		3.19	
Machine Shop.			
Small tools,	56.19		
Metals and castings,	1,006.87		
Miscellaneous,	201.27		
		1,264.33	
			2,088.48
Other Operating Supplies.			
Paper towels,		234.80	
Miscellaneous,		24.64	
			259.44
Other Operating Expenses.			
Graduation expenses,		1.50	
Miscellaneous,		13.47	
			14.97

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Maintenance and Repairs of Equipment.		
Printing,	$7.30	
Carpentry,	16.56	
Cabinet,	9.83	
Pattern,	1.67	
Machine shop,	25.78	
Gymnasium,	5.00	
		$66.14
Replacement of Equipment.		
Printing,	155.44	
Carpentry,	8.35	
Cabinet,	4.50	
Pattern,	1.00	
Machine shop,	495.31	
		664.60
New Equipment.		
Printing,	152.88	
Machine shop,	42.77	
Miscellaneous,	70.68	
		266.33
Total,		$16,422.92

VOCATIONAL—SPECIAL.

Tuition.	
Smith's Agricultural School of Northampton,	$100.00

VOCATIONAL EVENING SCHOOL.

Salary—Principal,	$36.00
Office Supplies,	.20
Salaries—Teachers,	321.00
Supplies,	60.45
Total,	$417.65

OPEN-AIR SCHOOL.

Salaries—Teachers,		$2,047.03
Salaries—Matron,		375.00
Books,		18.76
Stationery Supplies.		
Paper,	$21.77	
Miscellaneous,	3.19	
		24.96
Other Operating Supplies.		
Provisions,	886.03	
Napkins,	9.00	
Miscellaneous,	37.26	
		932.29
Other Operating Expense,		5.92
Total,		$3,403.96

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GRADED SCHOOLS.

ADMINISTRATION.

Salaries.		
Supervisors,	$19,234.50	
Supervising Principals,	43,950.62	
		$63,185.12
Salaries.		
Clerical Assistance,		630.00
Stationery and Office Supplies,		49.49
Printing,		1,773.91
Communication Service.		
Telephone,	1,446.21	
Telegraph,	1.62	
		1,447.83
Transportation Service.		
Freight and express,		13.01
Miscellaneous Supplies and Expenses,		27.50

OPERATION.

Salaries—Teachers,		395,733.49
Salaries—Matrons,		3,133.80
Salaries—Miscellaneous.		
Industrial work,	430.95	
Physical training,	21.00	
Care of lunch rooms,	44.00	
		495.95
Transportation of Pupils,		2,545.00
Support of Truants,		545.27
Books.		
Text,	13,778.30	
Reference,	628.26	
Binding,	390.49	
Mending materials,	65.99	
Covers,	2,077.99	
Writing copies,	172.30	
		17,113.33
Stationery Supplies.		
Paper.		
White,	5,797.29	
Manila,	2,231.81	
Drawing,	2,175.53	
Bookkeeping,	241.88	
Notebooks,	997.37	
Envelopes,	372.71	
Blotting,	173.46	
Pressboard and cardboard,	973.15	
Penmanship,	460.10	
Miscellaneous,	695.78	
	14,119.08	
Ink,	353.29	
Paste, etc.,	207.93	
Pencils,	1,068.04	
Pens and holders,	1,468.70	

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Thumb tacks and paper fasteners,		$338.44	
Rubber erasers,		97.05	
Rubber bands,		53.45	
Miscellaneous,		138.15	
			$17,844.13
Materials and Supplies Used in Special Courses.			
Physical Training.			
Soccer football,	$94.90		
Baseball,	106.31		
Field Day,	305.46		
Gymnasium,	50.20		
Phonograph records and dance music,	121.32		
Miscellaneous,	80.99		
		759.18	
Industrial Work.			
Lumber,	3,488.77		
Metals,	659.27		
Cement, sand, etc.,	26.08		
Paints, etc.,	573.96		
Hardware,	1,909.54		
First-aid supplies,	5.91		
Printing supplies,	447.08		
Miscellaneous,	940.94		
		8,051.55	
Household Science and Practical Arts.			
Cookery.			
Provisions,	$1,819.58		
Ice,	21.69		
Dishes and cooking utensils,	211.42		
Laundry,	68.27		
Miscellaneous,	1.60		
	2,122.56		
Sewing,	371.94		
		2,494.50	
Psychological Laboratory,		4.46	
Science.			
Chemicals and small glassware,	580.26		
School gardens,	126.33		
Miscellaneous,	279.08		
		985.67	
Drawing.			
Paints,	679.88		
Paint pans and brushes,	101.85		
Drawing crayons,	318.80		
Miscellaneous,	546.97		
		1,647.50	
			13,942.86
Other Miscellaneous Supplies.			
Kindergarten materials,		95.17	
Outline maps,		34.64	
Compasses,		96.00	
Rules,		107.96	
Maps, charts and globes,		82.30	
Blackboard erasers,		149.75	
Sponges,		514.04	

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Chalk,		$130.57	
Pencil sharpeners,		153.92	
Scissors,		193.15	
Mats,		79.00	
Burlap,		73.64	
Paper towels,		1,109.13	
Linen towels,		290.45	
Hygiene supplies,		56.66	
Miscellaneous,		627.34	
Open-Air Room.			
Provisions,	$287.07		
Labor,	81.16		
Miscellaneous,	164.03		
		532.26	
			$4,325.98
Other Operating Expenses.			
Tuning pianos, etc.,		99.25	
Graduation expenses,		55.88	
			155.13
Maintenance and Repairs of Equipment.			
Physical training,		27.50	
Industrial work,		102.54	
Household science and practical arts,		49.37	
Miscellaneous,		6.67	
			186.08
Replacement of Equipment.			
Industrial work,		449.15	
Household science and practical arts,		75.00	
Science,		27.00	
Miscellaneous,		63.16	
			614.31
New Equipment.			
Physical training,		73.04	
Industrial work,		1,651.18	
Household science and practical arts,		349.09	
Psychological laboratory,		25.00	
Science,		1,555.78	
Miscellaneous,		415.35	
			4,069.44
Total,			$527,831.63

KINDERGARTENS.

Salaries—Teachers,	$32,839.61
Supplies,	523.87
Other Operating Expenses,	77.75
Replacement of Equipment,	78.30
New Equipment,	65.10
Total,	$33,584.63

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ELEMENTARY EVENING SCHOOLS.

Salary—Principal,	$744.00
Salaries—Clerical Assistance,	58.00
Printing,	30.09
Salaries—Teachers,	4,853.00
Books,	15.05
Stationery Supplies,	31.69
Total,	$5,731.83

HIGH SCHOOLS LUNCH.

Salaries.		
Director,	$1,160.00	
Assistant director,	552.00	
Assistance,	6,647.04	
		$8,359.04
Supplies.		
Provisions,	22,599.74	
Ice,	149.55	
Cleaning supplies,	253.79	
Napkins,	30.95	
Miscellaneous,	50.98	
		23,085.01
Other Expenses.		
Car fares,	56.90	
Laundry,	284.95	
Printing,	10.06	
Postage,	9.45	
Telephone,	43.54	
Miscellaneous,	35.46	
		440.36
Maintenance and Repairs of Equipment,		28.72
Replacement of Equipment,		702.25
New Equipment,		77.80
Total,		$32,693.18

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SCHOOLHOUSE AGENT'S DEPARTMENT.

Expenditures for the operation and maintenance of school buildings, including alterations and permanent improvements, and for new buildings, are made by the Committee on City Property of the City Government, not by the School Board. They are included in this report as a matter of information and convenience.

Schoolhouse Property.

	Appropriations.	Expenditures.	Balances.
Administration,	$5,404.50	$5,201.79	
Operation,	153,611.66	162,377.46	
Maintenance,	66,653.97	57,363.18*	
Total,	$225,670.13	$224,942.43	$727.70

*Includes, $20,422.15 expended for alterations and permanent work on old buildings.

Expenditures for New Buildings.

High School of Commerce,	$265.25
Technical High School,	18,707.82
Boston Road School,	4,817.66
Brightwood School,	85,143.14
Chestnut Street School,	12,673.88
New Hooker School,	99,997.98
Howard Street School,	96,545.49
Washington School,	10,312.49
Worthington Street School,	9,803.37
Emery Street Storehouse,	23,988.90
	$362,255.98

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RECEIPTS.

	Tuition.	From Commonwealth.	Books and Materials sold, etc.	Moving Pictures.	Credits to Estimated Revenue Account.	Total.
Central High School,	$6,154.00		$26.55			$6,180.55
Technical High School,	11,956.00		187.16		$8.33	12,151.49
Evening School of Trades,	2,605.25		46.35			2,651.60
High School of Commerce,	8,819.75		155.35	$389.00	16.44	9,380.54
Evening High School,	924.00					924.00
Vocational School,	3,109.50	$8,846.90	242.28			12,198.68
Vocational Evening School,	164.50					164.50
Graded Schools—Day,	3,571.77	368.25	709.38		24.00	4,673.40
Evening Elementary Schools,	10.00					10.00
	$37,314.77	$9,215.15	$1,367.07	$389.00	$48.77	$48,334.76
High Schools Lunch,						27,852.09
						$76,186.85

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COST PER PUPIL.

(Based on average number belonging during fiscal year.)

SCHOOLS.	Teachers' Salaries.	Books.	Supplies and Other Expenses of Instruction.	Repair and Replacement of Equipment.	Transportation of Pupils.	New Equipment.	Total.	Administration and Other Expenses.	Total.
Central High,	$84.67	$2.66	$6.47	$0.75	....	$0.46	$95.01	$2.26	$97.27
High School of Commerce,	75.45	2.44	11.77	2.68	....	1.00	93.34	2.35	95.69
Technical High,	101.46	2.40	11.23	.72	....	1.53	117.34	2.65	119.99
Vocational,	161.43	.41	44.94	9.80	....	3.57	220.15	.50	220.65
Open-Air,	52.63	.48	34.40	....	....	....	87.51	.10	87.61
Graded—Day,	31.27	1.17	3.02	.06	$0.17	.28	35.97	1.57	37.54
Kindergartens,	29.42	....	.54	.07	....	.06	30.09	1.00	31.09
Evening High,	7.95	.64	1.01	....	....	....	9.60	.20	9.80
Evening Trades,	22.61	....	4.19	.01	....	.26	27.07	.21	27.28
Evening Elementary,	10.87	.03	.23	....	....	....	11.13	.16	11.29
" Vocational,	7.24	....	1.23	....	....	....	8.47	.02	8.49
AVERAGES.									
Day—High,	$86.69	$2.50	$9.84	$1.42	....	$0.99	$101.44	$2.42	$103.86
Day—Elementary,	31.80	1.08	3.12	.10	$0.16	.28	36.54	2.07	38.61
All DAY Schools,	39.02	1.26	4.01	.27	.14	.37	45.07	1.68	46.75
All EVENING Schools,	11.51	.30	1.31	....	....	.05	13.17	.42	13.59

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SCHOOL CENSUS

Population of City, 1915 (State Census) 102,971
Population of City, 1917 (Assessors' Estimate) 120,000

Number of children in Springfield between 5 and 16 years of age on April 1, 1917:

	5 yrs. to 7 yrs.	7 yrs. to 14 yrs.	14 yrs. to 16 yrs.	Total.
Public Schools,	Boys 1,372 Girls 1,325 2,697	Boys 5,566 Girls 5,339 10,905	Boys 1,107 Girls 1,155 2,262	Boys 8,045 Girls 7,819 15,864
Parochial Schools	Boys 195 Girls 215 410	Boys 1,152 Girls 1,297 2,449	Boys 94 Girls 212 306	Boys 1,441 Girls 1,724 3,165
Otherwise Instructed,	Boys 10 Girls 8 18	Boys 38 Girls 32 70	Boys 14 Girls 20 34	Boys 62 Girls 60 122
Not Attending School,	Boys 22 Girls 33 55	Boys 5 Girls 7 12	Boys 1 Girls 1 2	Boys 28 Girls 41 69
At Work,	Boys .. Girls	Boys .. Girls	Boys 478 Girls 320 798	Boys 478 Girls 320 798
Total,	Boys 1,599 Girls 1,581 3,180	Boys 6,761 Girls 6,675 13,436	Boys 1,694 Girls 1,708 3,402	Boys 10,054 Girls 9,964 20,018

Illiterate Minors, Males 249
Females 152
401

Number of children in Springfield between five and sixteen years of age:—
September 1, 1910 14,659
September 1, 1911 15,221
September 1, 1912 15,915
September 1, 1913 16,855
September 1, 1914 17,480
September 1, 1915 18,129
April 1, 1917 20,018

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SUMMARY,
SCHOOL ENROLLMENT AND ATTENDANCE.

(For the school year, October 2, 1916—June 29, 1917.)

SCHOOLS.	Enrollment.	Average Number Belonging.	Average Number Attending.	*Per cent. of Attendance.
High,	2,795	2,551.5	2,398.2	94.0
Grammar and Primary,	16,192	14,350.2	13,351.8	93.1
Kindergartens,	1,988	1,083.9	866.8	80.0
All day schools,	20,975	17,985.6	16,616.8	93.2
Evening High,	1,116	666.2	479.9	72.0
Evening Grammar and Primary,	1,230	575.4	431.0	74.9
Evening Trades Classes,	883	259.2	213.2	83.2
All evening schools,	3,229	1,500.8	1,124.1	75.5

*Obtained by dividing aggregate attendance by aggregate membership.

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NUMBER OF ROOMS IN ELEMENTARY SCHOOLS.

(For the school year, October 2, 1916—June 29, 1917.)

	First Semester.					Second Semester.				
	Regular.	Ungraded.	Special.	Kindergarten.	Total.	Regular.	Ungraded.	Special.	Kindergarten.	Total.
Open Air,	1	..	..	..	1	1	..	..	..	1
Acushnet Avenue,	11	..	1	1	13	11	..	1	1	13
Alden Street,	4	..	..	..	4	4	..	..	..	4
Armory Street,	19	..	1	1	21	19	..	1	1	21
Barrows,	9	..	..	..	9	9	..	..	..	9
Boston Road,	4	..	..	..	4	4	..	..	..	4
Brightwood,	12	..	..	1	13	12	..	..	1	13
Buckingham,	22	..	2	..	24	23	..	2	..	25
Carew Street,	13	..	1	..	14	13	..	1	..	14
Central Street,	15	..	4	1	20	15	..	4	1	20
Charles Street,	4	..	..	..	4	4	..	..	..	4
Chestnut Street,	35	..	3	..	38	35	..	3	..	38
Dry Bridge,	2	..	..	..	2	2	..	..	..	2
Eastern Avenue,	7	..	..	1	8	7	..	..	1	8
East Main Street, I. O.	4	..	..	1	5	4	..	..	1	5
East Union Street,	6	..	1	1	8	6	..	1	1	8
Five Mile Pond,	..	1	..	..	1	..	1	..	..	1
Forest Park,	20	..	..	..	20	20	..	..	..	20
Forest Park Portable,	2	..	..	..	2	2	..	..	..	2
Glenwood,	2	..	..	..	2	2	..	..	..	2
Homer Street,	10	..	..	1	11	10	..	..	1	11
Hooker,	13	..	1	1	15	13	..	1	1	15
Howard,	17	..	1	1	19	18	..	1	1	20
Jefferson Avenue,	11	..	..	1	12	11	..	..	1	12
Kensington Avenue,	15	..	1	1	17	15	..	1	1	17
Lincoln,	15	..	..	..	15	15	..	..	..	15
Myrtle Street, I. O.,	15	..	1	1	17	16	..	1	1	18
Rushville,	2	..	..	..	2	2	..	..	..	2
School Street,	4	..	..	..	4	4	..	..	..	4
Sixteen Acres,	..	2	..	..	2	..	2	..	..	2
State Street,	8	..	4	..	12	9	..	3	..	12
Strickland,	7	..	..	..	7	7	..	..	..	7
Sumner Avenue,	9	..	..	1	10	9	..	..	1	10
Tapley,	14	..	..	1	15	14	..	..	1	15
White Street,	10	..	..	1	11	10	..	..	1	11
William Street,	9	..	1	1	11	9	..	1	1	11
Worthington Street,	11	..	1	1	13	11	..	2	1	14
Totals	362	3	23	18	406	366	3	23	18	410

AVERAGE NUMBER OF PUPILS TO A ROOM IN ELEMENTARY SCHOOLS.

	Figured on Enrollment.	Figured on Average Number Belonging.
Regular,	42.1	37.4
Open-Air,	39.0	38.8
Ungraded,	26.0	18.6
Special:—		
Grammar Preparatory,	32.0	24.4
Special Preparatory,	16.5	14.6
Practical Arts,	32.0	30.1
English Preparatory,	30.0	23.9
Kindergartens,	110.4	60.2

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NUMBER OF TEACHERS' POSITIONS. DAY SCHOOLS.

(For the school year, October 2, 1916—June 29, 1917.)

	First Semester.			Second Semester.		
	Men.	Women.	Total.	Men.	Women.	Total.
Supervisors,	3	8	11	3	8	11
Supervising Principals, High,	3	0	3	3	0	3
Heads of Departments, High,	15	7	22	15	7	22
Full time teachers, High,	39	93	132	39	94	133
Part time teachers, High,	0	2	2	0	2	1
Full time teachers, High and Vocational,	1	0	1	1	0	2
Supervising Principal, Vocational, and Supervisor of Manual Training,	1	0	1	1	0	1
Regular teachers, Vocational,	7	0	7	7	0	7
Supervising Principals, Primary and Grammar,	9	15	24	9	15	24
Assistants to Supervising Principals, Primary and Grammar,	0	14	14	0	15	15
Principals who devote half or more than half their time to teaching,	0	6	6	0	6	6
Assistants to Principals who teach,	0	1	1	0	1	1
Regular teachers in charge of room,	1	342	343	1	346	347
Regular teachers not in charge of room,	0	3	3	0	3	3
Teachers of ungraded schools,	0	3	3	0	3	3
Teachers of special rooms in charge of room,	0	23	23	0	23	23
Teachers of special rooms not in charge of room,	4	3	7	7	3	10
Assistants to teachers of special rooms,	0	1	1	0	1	1
General substitutes,	0	3	3	0	3	3
Kindergarten teachers,	0	17	17	0	17	17
Assistants to Kindergarten teachers,	0	25	25	0	25	25
Teachers of special subjects not in charge of room—						
Manual Training,	7	0	7	7	0	7
Manual Training and Practical Arts,	1	0	1	0	0	0
Practical Arts, special,	1	1	2	2	1	3
Sewing,	0	2	2	0	2	2
Cooking and Sewing,	0	7	7	0	7	7
Cooking and Sewing (part time),	0	1	1	0	2	2
Drawing,	0	5	5	0	6	6
German,	0	3	3	0	2	2
Visiting teacher,	0	1	1	0	1	1
Director of Psychological Laboratory,	1	0	1	1	0	1
Director of High Schools Lunch Department,	0	1	1	0	1	1
Total,	93	587	680	96	594	690

EVENING SCHOOLS.

(School term, October 9, 1916—March 29, 1917.)

	Men.	Women.	Total.
Principals, High,	1	0	1
Teachers, High,	16	15	31
Principals, Trades,	1	0	1
Teachers, Trades,	22	7	29
Principals, Elementary,	2	1	3
Teachers, Elementary,	2	43	45
Total,	44	66	110

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HIGH SCHOOL GRADUATES.

(For the school year, October 2, 1916—June 29, 1917.)

	TOTALS.			COURSES.											
				College Preparatory.			General.			Commercial.			Scientific.		
	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls
CENTRAL HIGH.															
February, 1917,	36	14	22	10	8	2	26	6	20	...	..	..	..	..	..
June, 1917,	103	36	67	43	17	26	60	19	41	...	..	..	..	..	..
Total,	139	50	89	53	25	28	86	25	61	...	..	..	..	..	..
HIGH SCHOOL OF COMMERCE.															
February, 1917,	56	12	44	..	..	..	..	..	..	56	12	44	..	..	..
June, 1917,	84	17	67	..	..	..	..	..	..	84	17	67	..	..	..
Total,	140	29	111	..	..	..	..	.		140	29	111	..	..	..
TECHNICAL HIGH.															
February, 1917,	29	14	15	7	3	4	..	.	..	...	..	..	22	11	11
June, 1917,	69	43	26	32	25	7	..	..	..	...	..	..	37	18	19
Total,	98	57	41	39	28	11	..	..	..	..	..	..	59	29	30
TOTALS FOR ALL HIGH SCHOOLS.															
February, 1917,	121	40	81	17	11	6	26	6	20	56	12	44	22	11	11
June, 1917,	256	96	160	75	42	33	60	19	41	84	17	67	37	18	19
Total,	377	136	241	92	53	39	86	25	61	140	29	111	59	29	30

VOCATIONAL SCHOOL GRADUATES.

(For the school year, October 2, 1916—June 29, 1917.)

		COURSES.		
	Totals.	Carpentry.	Machine.	Printing.
February, 1917,	0	0	0	0
June, 1917,	5	1	3	1
Total,	5	1	3	1

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CENTRAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 28, 1917.

CLASS.	AGE.	12	13	14	15	16	17	18	19	20	21	22	Totals.	
College	Boys.						2		1	1			4	
	Girls.						2	8	3	2	1		16	20
Graduates	Boys.						1						1	
	Girls.						2	3	2				7	8
Senior A	Boys.						7	8	4	1	1	1	22	
	Girls.					1	13	10	3	1			28	50
Senior B	Boys.					4	16	13	5	2			40	
	Girls.				1	6	26	19	6	2			60	100
Junior A	Boys.				2	11	12	9	5				39	
	Girls.					12	17	14	1	2			46	85
Junior B	Boys.			1	8	19	13	6					47	
	Girls.			4	11	30	19	7	2	1			74	121
Sophomore A	Boys.				7	17	13	3	1	1			42	
	Girls.			2	8	13	11	8					42	84
Sophomore B	Boys.		1	13	16	20	9	4	2	1			66	
	Girls.		4	9	29	20	9	2	1				74	140
Freshman A	Boys.		3	11	12	17		3		1			47	
	Girls.		2	18	26	11	1	1					59	106
Freshman B	Boys.			1	2	2	1						6	
	Girls.			1	4	2							7	13
Totals,	Boys.		4	26	47	90	74	46	18	7	1	1	314	
	Girls.		6	34	79	95	100	72	18	8	1		413	727
			10	60	6	185	174	118	36	15	2	1	727	

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Av. Age of Class.
College	Boys.	18-3	19-11	16-9	18-4
	Girls.	18-5	21-1	17-8	
Graduates	Boys.	17-0	16-11	16-11	17-5
	Girls.	18-0	19-3	16-11	
Senior A	Boys.	18-3	22-0	16-11	17-9
	Girls.	17-6	19-8	16-6	
Senior B	Boys.	17-6	20-3	15-10	17-5
	Girls.	17-5	19-11	15-4	
Junior A	Boys.	17-1	19-2	14-8	17-0
	Girls.	16-8	19-8	15-9	
Junior B	Boys.	16-3	18-6	14-7	16-5
	Girls.	16-5	19-11	13-11	
Sophomore A	Boys.	16-5	20-10	14-11	16-4
	Girls.	16-4	18-8	14-6	
Sophomore B	Boys.	15-7	20-3	13-0	15-6
	Girls.	15-4	19-2	13-4	
Freshman A	Boys.	15-3	20-0	13-3	15-1
	Girls.	14-6	17-11	12-9	
Freshman B	Boys.	15-5	17-3	14-6	15-3
	Girls.	15-1	16-6	13-8	

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CENTRAL HIGH SCHOOL—Continued.

DISTRIBUTION OF PUPILS BY CLASSES AND COURSES.

CLASS.		College Preparatory	General.	Totals.	
College	Boys.	4		4	
	Girls.	16		16	20
Graduates	Boys.	1		1	
	Girls.	7		7	8
Senior A	Boys.	14	8	22	
	Girls.	14	14	28	50
Senior B	Boys.	38	2	40	
	Girls.	31	29	60	100
Junior A	Boys.	32	7	39	
	Girls.	21	25	46	85
Junior B	Boys.	38	9	47	
	Girls.	37	37	74	121
Sophomore A	Boys.	35	7	42	
	Girls.	17	25	42	84
Sophomore B	Boys.	54	12	66	
	Girls.	45	29	74	140
Freshman A	Boys.	41	6	47	
	Girls.	35	24	59	106
Freshman B	Boys.	4	2	6	
	Girls.	4	3	7	13
Totals.	Boys.	261	53	314	
	Girls.	227	186	413	727
		488	239	727	

TECHNICAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 28, 1917.

CLASS.	AGE.	12	13	14	15	16	17	18	19	20	21	Totals.	
Post-Graduate	Boys.							1	2			3	
	Girls.						1	1	1			3	6
Senior A	Boys.					1	11	6	9	2	2	31	
	Girls.						7	13	2			22	53
Senior B	Boys.				1	9	19	18	6	3		56	
	Girls.					2	13	16	4		1	36	92
Junior A	Boys.				1	11	22	9	3	1		47	
	Girls.				1	4	9	2	1			17	64
Junior B	Boys.			2	11	20	13	9	4			59	
	Girls.				9	16	13	5	1			44	103
Sophomore A	Boys.			4	18	17	15	5	1			60	
	Girls.			1	1	8	6	2		1		19	79
Sophomore B	Boys.		1	12	50	34	15	6				118	
	Girls.			6	17	17	5	1				46	164
Freshman A	Boys.	1	3	19	27	11	3	3	1			68	
	Girls.		1	9	10	4	1					25	93
Freshman B	Boys.			3	4	1						8	8
Totals.	Boys.	1	4	40	112	104	98	57	26	6	2	450	
	Girls.		1	16	38	51	55	40	9	1	1	212	662
		1	5	56	150	155	153	97	35	7	3	662	

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TECHNICAL HIGH SCHOOL—Continued.

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate.....	Boys.	19-1	19-7	18-5	18-8
	Girls.	18-3	19-1	17-7	
Senior A.....	Boys.	18-8	21-0	16-9	18-8
	Girls.	18-8	19-9	17-2	
Senior B.....	Boys.	18-0	20-9	15-8	18-0
	Girls.	18-0	21-3	16-4	
Junior A.....	Boys.	17-9	20-0	15-11	17-7
	Girls.	17-0	19-9	15-10	
Junior B.....	Boys.	17-0	19-5	14-11	17-0
	Girls.	16-11	19-2	15-3	
Sophomore A.....	Boys.	16-6	19-0	14-11	16-8
	Girls.	16-11	20-0	14-11	
Sophomore B.....	Boys.	16-1	18-11	13-11	16-1
	Girls.	16-0	18-2	14-0	
Freshman A.....	Boys.	15-6	19-0	13 0	15-5
	Girls.	15-4	17-2	13-0	
Freshman B.....	Boys.	15-4	16-10	14-4	14-4
	Girls.				

DISTRIBUTION OF PUPILS BY CLASSES AND COURSES.

CLASS.		Scientific.	College Prep.	Totals.	
Post-Graduate.....	Boys.		3	3	6
	Girls.	3		3	
Senior A.....	Boys.	14	17	31	53
	Girls.	21	1	22	
Senior B.....	Boys.	26	30	56	92
	Girls.	33	3	36	
Junior A.....	Boys.	25	22	47	64
	Girls.	13	4	17	
Junior B.....	Boys.	19	40	59	103
	Girls.	33	11	44	
Sophomore A.....	Boys.	21	39	60	79
	Girls.	17	2	19	
Sophomore B.....	Boys.	76	42	118	164
	Girls.	39	7	46	
Freshman A.....	Boys.	41	27	68	93
	Girls.	19	6	25	
Freshman B.....	Boys.	2	6	8	8
	Girls.				
Totals.	Boys.	224	226	450	662
	Girls.	178	34	212	
		402	260	622	

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HIGH SCHOOL OF COMMERCE

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 28, 1917.

CLASS.	AGE.	13	14	15	16	17	18	19	20	21	22	23	24	25	33	Totals.	
Salesmanship	Girls.			1	3	1	2	1	2		1	1	1	1	1	15	15
Post-Graduate	Boys.						1	1		1						3	
	Girls.					4	5	2	3				2			16	19
Senior A	Boys.					1	5	5	1							12	
	Girls.					7	17	9	1	1						35	47
Senior B	Boys.				2	10	11	3	3							29	
	Girls.			1		28	16	13	2		1					61	90
Junior A	Boys.			3	3	6	3	6	3							24	
	Girls.			2	3	21	16	5	3	1						51	75
Junior B	Boys.			3	10	13	5	2	1	1						35	
	Girls.			4	28	31	9	2	2							76	111
Sophomore A	Boys.				13	8	5	3								29	
	Girls.			6	13	25	3	2	*1							50	79
Sophomore B	Boys.		1	13	14	9	3	1								41	
	Girls.		13	50	54	18	5	1								141	182
Freshman A	Boys.	1	3	13	14	10		1	2							44	
	Girls.	2	15	37	32	12										98	142
	Boys.	1	4	32	56	57	33	22	10	2						217	
	Girls.	2	28	101	133	147	73	35	14	2	2	1	3	1	1	543	760
Totals		3	32	133	189	204	106	57	24	4	2	1	3	1	1	760	

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HIGH SCHOOL OF COMMERCE.—*Continued.*

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Salesmanship....	Girls.	20-2	32-8	14-10	20-2
Post-Graduate...	Boys.	19-4	20-7	17-10	
	Girls.	19	23-9	17-3	19
Senior A.....	Boys.	18-6	20-5	17-4	
	Girls.	18-2	21	16-8	18-3
Senior B.....	Boys.	17-10	19-10	16-1	
	Girls.	17-10	21-6	15-3	17-10
Junior A.....	Boys.	17-8	19-10	15	
	Girls.	17-8	20-8	15-5	17-8
Junior B.....	Boys.	17	20-6	14-8	
	Girls.	16-6	19-6	14-10	16-10
Sophomore A...	Boys.	16-11	19-3	15-7	
	Girls.	16-8	19-9	14-5	16-9
Sophomore B...	Boys.	16-1	18-8	14	
	Girls.	15-8	18-6	13-11	15-9
Freshman A.....	Boys.	15-11	19-8	13-3	
	Girls.	15-4	17-5	13	15-7

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AVERAGE AGE IN EACH GRADE, SEPTEMBER 28, 1917.

GRADES.	IB.	IA.	IIB.	IIA.	IIIB.	IIIA.	IVB.	IVA.	VB.	VA.	VIB.	VIA.	Junior High School.					
													IB.	IA.	IIB.	IIA.	IIIB.	IIIA.
H. S. of Commerce,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14 10
Acushnet Avenue,	6 1	7 2	7 5	8 3	8 4	8 11	9 5	10 3	10 7	...	...	...	...	...	...	...	...	...
Alden Street,	5-10	6 5	6 11	7-10	8 1	8-5	8 7	9 7	...	...	...	...	...	...	...	...	...	...
Armory Street,	5-8	6 5	6 11	7-7	7 10	8 6	8 11	9 9	10 2	10 7	11 0	11-10	12 1	...	...	...	...	...
Barrows,	...	...	...	...	...	...	9 5	9 9	10 6	11 0	11 8	12 2	...	...	...	...	...	...
Boston Road,	6 0	6-10	7 4	7 9	8 8	8-11	9-2	9-7	10-11	11-0	11 0	12-2	...	...	...	...	...	...
Brightwood,	5-5	6 7	7 3	7-5	8 5	9 8	9 6	10 0	10-6	11 4	11 11	11-11	...	...	...	...	...	...
Buckingham,	...	...	...	...	...	...	9 4	9-9	10 1	11-1	11 6	11-10	12-7	12-11	13-4	13-6	14-3	14 4
Carew Street,	5-10	6 8	7-1	7-7	8 1	9-8	9 3	10 2	10 5	10 11	11-6	...	...	...	...	...	...	...
Central Street,	5-10	6-5	6 9	7 7	8 1	8-7	8 10	9 8	10-3	10 9	11 7	12-3	12-5	12 7	13 2	13-5	14 2	...
Charles Street,	5-7	6-4	7 0	7-8	8 4	8 10	9 2	...	...	...	...	...	...	...	...	...	...	...
Chestnut Street,	...	...	...	...	...	...	...	9 4	10-2	10 7	11-5	12-0	12 3	13-0	13-3	13 9	14-1	14 5
Eastern Avenue,	5 11	6 3	7-0	7-10	8 5	9 6	9-5	10-4	10-6	11 1	...	...	...	...	...	...	...	...
East Main St., I. O.,	5-7	7-1	6 8	7-4	8 10	8 5	10-2	...	...	...	...	...	...	...	...	...	...	...
East Union Street,	5-11	6-11	7-5	8-0	8 2	9 2	9 11	10 4	...	...	...	...	...	...	...	...	...	...
Forest Park,	...	...	...	...	...	...	...	...	...	...	11-11	11-11	13 11	12-10	13 4	13 8	14-6	14 1
Glenwood,	6-6	5 7	8 0	6 9	8 3	8-1	8-11	...	...	...	...	...	...	...	...	...	...	...
Homer Street,	5 8	6 5	6 8	7 5	8 1	8 4	9-1	9 3	...	...	...	...	...	...	...	...	...	...
Hooker,	6 0	7 1	7 8	8-4	8 9	9 4	10 3	10 2	11-5	11-8	11 7	...	...	...	...	...	...	...
Howard Street,	6-6	7-5	7-7	8-7	8 6	9 2	10 10	10-11	11-1	11-5	12 0	12-3	12 9	12-3	...	...	...	...
Jefferson Avenue,	5-11	6 6	6-10	7-4	8 1	8 4	9 2	...	...	...	...	...	...	...	...	...	...	...
Kensington Avenue,	5-6	6-4	6-9	7-5	7 8	8 5	8 10	9 5	10-0	11-0	...	...	...	...	...	...	...	...
Lincoln,	5-11	6 5	7 0	7 10	8 6	8 9	9 3	9 6	10-7	10-10	11 3	11 8	12-7	12 9	...	...	...	...
Myrtle Street, I. O.,	5-11	6-4	7 1	7 6	8 0	8 5	9-2	10 2	10 11	11-7	12 4	11-10	12-11	12-7	13-5	13 11	14-1	14 8
Rushville,	5 4	6 11	7 0	9 1	8 3	8 5	9 1	...	...	...	...	...	...	...	...	...	...	...
School Street,	5 7	6 7	6 5	7 3	7 8	9-5	8 2	9 0	9 11	...	11-3	11-2	...	...	...	...	...	...
State Street,	...	...	...	...	...	...	...	...	...	...	...	...	12-7	11-8	13-4	13-8	14-5	14-8
Strickland,	5-10	6 6	7 3	7-10	8 1	8-9	...	...	...	...	...	...	...	...	...	...	...	...
Sumner Avenue,	5 9	6 6	6 7	7-0	7 9	8-0	8 8	9 1	9 10	10 4	10 10	...	...	...	...	...	...	...
Tapley,	5 8	6 1	6 9	7 10	7 9	8 6	8 11	9 10	9 11	10 6	11 2	11 8	...	...	...	...	...	...
Washington,	5 10	6 6	6 10	7-1	7 9	...	...	...	...	...	...	...	...	...	...	...	...	...
White Street,	6-0	6-11	7 2	8-5	8 2	8 5	9 3	10 1	10 4	10 5	11 6	...	...	...	...	...	...	...
William Street,	5-11	6-10	7 7	7 8	8 11	8 9	10 1	...	...	...	...	...	...	...	...	...	...	...
Worthington Street,	6 2	6-11	7 7	8 4	8 9	9-0	10 2	11 1	10-11	11 7	11-6	12-4	...	...	...	...	...	...
Average,	5-10	6 7	7-1	7-8	8 2	8-9	9-3	9 10	10 5	10 11	11-6	11-11	12 8	12-7	13-3	13-8	14 3	14 6

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	Post-Grad.
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Post-Grad.	
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AVERAGE AGE IN EACH GRADE, SEPTEMBER 28, 1917.

GRADES.	IB.	IA.	IIB	IIA.	IIIB.	IIIA.	IVB.	IVA.	VB.	VA.	VIB.	VIA.	JUNIOR HIGH SCHOOL.					
													IB.	IA.	IIB.	IIA.	IIIB.	IIIA.
H. S. of Commerce,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14 10
Acushnet Avenue,	6-1	7 2	7 5	8 3	8 4	8 11	9 5	10-3	10 7	...	...	...	...	...	...	...	...	...
Alden Street,	5-10	6 5	6-11	7 10	8-1	8 5	8 7	9-7	...	...	...	...	...	...	...	...	...	...
Armory Street,	5 8	6-5	6 11	7-7	7 10	8-6	8-11	9 9	10-2	10 7	11 0	11-10	12-1	...	...	...	...	...
Barrows,	...	...	...	...	...	...	9 5	9 9	10-6	11-0	11-8	12-2	...	...	...	...	...	...
Boston Road,	6 0	6-10	7-4	7-9	8-8	8-11	9 2	9-7	10-11	11-0	11-0	12-2	...	...	...	...	...	...
Brightwood,	5-5	6-7	7-3	7-5	8-5	9 8	9-6	10-0	10-6	11 4	11-11	11-11	...	...	...	...	...	...
Buckingham,	...	...	...	...	...	...	9-4	9-9	10-1	11-1	11-6	11-10	12-7	12-11	13-4	13-6	14-3	14-4
Carew Street,	5-10	6 8	7-1	7-7	8 1	9-8	9-3	10 2	10 5	10-11	11-6	...	...	...	...	...	...	...
Central Street,	5-10	6-5	6 9	7-7	8-1	8 7	8 10	9 8	10-3	10-9	11-7	12-3	12-5	12-7	13-2	13-5	14-2	...
Charles Street,	5-7	6-4	7-0	7-8	8-4	8-10	9 2	...	...	...	...	...	...	...	...	...	...	...
Chestnut Street,	...	...	...	...	...	...	...	9 4	10-2	10-7	11-5	12-0	12 3	13-0	13-3	13-9	14-1	14-5
Eastern Avenue,	5-11	6 3	7-0	7-10	8 5	9-6	9 5	10 4	10-6	11-1	...	...	...	...	...	...	...	...
East Main St., I. O.,	5-7	7-1	6-8	7-4	8-10	8 5	10 2	...	...	...	...	...	...	...	...	...	...	...
East Union Street,	5 11	6-11	7-5	8-0	8-2	9 2	9 11	10-4	...	...	...	...	...	...	...	...	...	...
Forest Park,	...	...	...	...	...	...	...	...	...	...	11-11	11-11	13-11	12-10	13-4	13-8	14-6	14-1
Glenwood,	6-6	5-7	8 0	6 9	8 3	8 1	8-11	...	...	...	...	...	...	...	...	...	...	...
Homer Street,	5 8	6 5	6 8	7 5	8 1	8-4	9-1	9-3	...	...	...	...	...	...	...	...	...	...
Hooker,	6-0	7-1	7 8	8-4	8-9	9-4	10-3	10 2	11-5	11-8	11 7	...	...	...	...	...	...	...
Howard Street,	6-6	7-5	7-7	8-7	8 6	9 2	10 10	10 11	11-1	11-5	12-0	12-3	12-9	12-3	...	...	...	...
Jefferson Avenue,	5-11	6-6	6-10	7 4	8-1	8 4	9 2	...	...	...	...	...	...	...	...	...	...	...
Kensington Avenue,	5-6	6-4	6 9	7-5	7 8	8-5	8 10	9 5	10-0	11 0	...	...	...	...	...	...	...	...
Lincoln,	5-11	6 5	7 0	7 10	8 6	8 9	9 3	9-6	10-7	10-10	11-3	11-8	12-7	12-9	...	...	...	...
Myrtle Street, I. O.,	5 11	6 4	7 1	7 6	8 0	8 5	9-2	10-2	10-11	11-7	12 4	11 10	12-11	12-7	13-5	13 11	14 1	14-8
Rushville,	5 4	6 11	7 0	9-1	8-3	8-5	9-1	...	...	...	...	...	...	...	...	...	...	...
School Street,	5 7	6-7	6 5	7-3	7-8	9-5	8-2	9-0	9 11	...	11-3	11-2	...	...	...	...	...	...
State Street,	...	...	...	...	...	...	...	...	...	...	...	...	12-7	11-8	13-4	13-8	14-5	14-8
Strickland,	5-10	6 6	7-3	7-10	8-1	8-9	...	...	...	...	...	...	...	...	...	...	...	...
Sumner Avenue,	5-9	6-6	6 7	7-0	7-9	8-0	8 8	9-1	9 10	10-4	10 10	...	...	...	...	...	...	...
Tapley,	5-8	6-1	6 9	7 10	7 9	8 6	8 11	9 10	9 11	10 6	11 2	11-8	...	...	...	...	...	...
Washington,	5-10	6-6	6 10	7-1	7-9	...	...	...	...	...	...	...	...	...	...	...	...	...
White Street,	6-0	6-11	7-2	8-5	8-2	8 5	9-3	10 1	10 4	10 5	11-6	...	...	...	...	...	...	...
William Street,	5-11	6-10	7-7	7-8	8 11	8-9	10 1	...	...	...	...	...	...	...	...	...	...	...
Worthington Street,	6-2	6-11	7-7	8 4	8 9	9 0	10 2	11 1	10-11	11 7	11-6	12-4	...	...	...	...	...	...
Average,	5-10	6 7	7-1	7-8	8-2	8-9	9 3	9-10	10-5	10-11	11-6	11-11	12-8	12-7	13-3	13-8	14-3	14-6

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Post-Grad.
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TABLE SHOWING THE GRADUAL DROPPING OUT OF PUPILS IN THE VARIOUS GRADES.

NUMBER OF PUPILS IN EACH GRADE.

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	Fresh-man.	Soph-omore	Junior.	Senior.	Post-Grad.
January, 1891,	1234	766	681	577	511	408	295	260	221					
January, 1892,	1307	893	841	541	522	468	327	245	222					
January, 1893,	1311	1013	918	648	483	477	350	236	230					
January, 1894,	1434	990	996	659	584	505	342	238	248					
September, 1894,	1618	936	1030	795	640	530	350	266	250	174	154	69	63	
September, 1895,	1539	1053	1035	794	724	513	445	277	263	177	126	96	65	
September, 1896,	1723	1020	1180	817	785	621	460	283	258	204	118	86	104	
September, 1897,	1731	1134	1211	980	739	754	474	381	274	206	159	93	88	15
September, 1898,	1775	1145	1287	965	875	657	635	382	299	227	159	123	80	22
September, 1899,	1789	1174	1243	1029	952	786	559	486	380	243	174	130	114	13
September, 1900,	1717	1068	1294	1107	904	884	621	463	380	293	206	142	83	28
September, 1901,	1717	1265	1226	1152	1024	892	759	548	378	298	212	68	104	26
September, 1902,	1685	1297	1276	1088	1135	903	768	655	416	316	214	179	124	27
September, 1903,	1773	1319	1180	1341	1072	986	799	633	464	390	260	172	132	18
September, 1904,	1610	1314	1265	1260	1025	984	912	639	478	433	335	207	121	26
September, 1905,	1663	1293	1271	1266	1140	977	881	661	560	350	248	229	132	16
September, 1906,	1484	1375	1267	1249	1151	1025	941	712	514	509	338	236	185	16
September, 1907,	1565	1348	1283	1221	1203	1059	970	792	593	464	353	272	176	16
September, 1908,	1679	1515	1225	1339	1134	1164	974	914	650	584	363	292	192	38
September, 1909,	1850	1395	1352	1264	1176	1122	995	924	741	638	409	299	225	35
September, 1910,	1774	1404	1402	1303	1200	1148	1052	863	761	694	455	338	181	37
September, 1911,	1731	1543	1373	1347	1300	1076	1058	926	716	729	492	366	226	25
September, 1912,	1968	1397	1465	1311	1352	1189	1035	949	808	696	536	405	238	21
September, 1913,	2218	1677	1481	1423	1347	1345	1162	898	690	787	547	450	277	25
September, 1914,	2305	1789	1593	1451	1367	1350	1327	1046	899	932	631	457	316	39
September, 1915,	2137	1872	1661	1513	1354	1407	1179	1081	1037	930	774	529	348	32
September, 1916,	2233	1865	1809	1709	1477	1453	1211	976	926	936	723	582	356	64

	I.	II.	III	IV.	V.	VI.	Junior High			(a) (b)	Soph-omore.	Junior.	Senior.	Post-Grad.
							I.	II.	III.					
September, 1917,	2491	1963	1858	1857	1731	1488	1420	1196	1051	391 362	728	559	432	68

(a) Junior High School Class in High School.
(b) Advanced Freshmen.

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THE SENIOR HIGH SCHOOLS

The senior high schools are not managed as entirely separate and unrelated institutions. They are so conveniently grouped that interchange of students is easy and economical. Pupils choose courses, not schools. On promotion from the junior high school a pupil decides, with the advice and approval of his parents, what course among those offered in the senior high schools most fully meets his needs. He is then assigned for enrollment to that school in which his entire course, or the greater part of his course, is carried on. To secure certain portions of his work he may need to report for one or more periods each week at a recitation room, laboratory, or gymnasium in one of the other schools, but his assignment for enrollment in a school is decided on the basis of the predominant characteristics of the course which he chooses.

CENTRAL HIGH SCHOOL

First high school in Springfield; organized, 1841.

Central High School, organized, 1849.

Present building occupied, 1898.

Alumni Association organized, 1854.

Officers of the Alumni Association: Executive Committee: President, Frank Hodskins; vice-president, Mrs. George Pirnie; secretary, W. Meredith Wharfield; treasurer, Philip Beebe; Mrs. Edward H. Wilkinson, Miss Constance Fowler, Hon. Frank E. Stacy, Dwight Winter, Mrs. Kingman Brewster.

TECHNICAL HIGH SCHOOL

Manual training course opened to high school pupils, 1886.

Organized as Mechanics Arts High School, 1898.

Present name adopted, 1904.

Housed in present building and courses in household technology offered for girls, 1906.

Alumni Association organized, 1903.

Officers of the Alumni Association: President, Ray A. Burt; vice-president, Arthur Lantz; secretary and treasurer, Milton M. Smith; member-at-large, Victor Wesson.

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HIGH SCHOOL OF COMMERCE

Organized as a department in Central High School, 1898.

Transferred to Technical High School, 1906.

Organized as High School of Commerce and transferred to Central High School Building, with sessions in the afternoon, 1910.

New building occupied, September, 1915.

Alumni Association organized, February 23, 1917.

Officers of the Alumni Association: President, John W. Colton; first vice-president, John W. Wood; second vice-president, Miss Margaret F. Ganley; secretary-treasurer, Miss Hazel Gibbins; executive committee, John W. Colton, Mrs. Agnes Pope Flannery, Miss Hazel Gibbins, Raymond B. Shattuck, Lloyd Galbraith, Miss Sara U. Freeman, and Principal Carlos B. Ellis.

TERMS OF ADMISSION TO ALL SENIOR HIGH SCHOOLS.

Pupils are admitted to the senior high schools twice a year. All pupils of the junior high schools who are recommended by the principals of these schools are admitted without examination.

Non-residents are admitted upon passing the required examination and paying a tuition of $120 per year in advance. A special pamphlet containing the courses of study and all other necessary information in regard to these schools is issued separately, and may be obtained by applying to the Superintendent of Schools.

EVENING SCHOOL OF TRADES

Organized, 1898.

Conducted in Technical High School building, beginning 1906.

TERMS OF ADMISSION.

Tuition in all the classes is free to all persons over fourteen years of age who are residents of Springfield, but a fee of $5 for materials and other incidental expenses is charged each member of the classes in machine shop practice, and in pattern-making; in plumbing this incidental fee is $8, and in the laboratory work in electricity it is $4. Non-residents are charged a tuition fee for the season of twenty-four weeks as follows: For mechanical drawing, for mathematics, and for electricity, $10; for all

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other classes, $15. Non-residents are also charged the incidental fees. Members are required to be regular in attendance. Persons wishing to join classes must give satisfactory references as to character and show evidence of ability to do the work required. Certificates of proficiency are awarded in each course to those who complete that course satisfactorily. The school opens the second week in October and is in operation 24 weeks, closing Thursday and Friday evenings of Thanksgiving week and during the vacation of the Christmas holiday season. The school hours are from 7.15 P.M. to 9.15 P.M.

Tuition in all the evening art classes and in the practical classes in domestic science, sewing, and home decoration is free to all persons over fourteen years of age who are residents of Springfield, but a fee of $2.50 for materials and other incidental expenses is charged each member of the classes in design and crafts and domestic science; in the classes in sewing and dressmaking this incidental fee is $2. No incidental fee is charged for the classes in free-hand and model drawing. In addition to these incidental fees non-residents are charged a tuition fee of $10 for the season of twenty-four weeks.

VOCATIONAL SCHOOL

Organized in Technical High School building, 1908.

In July, 1911, State approval was secured with reimbursement of one half the cost of maintenance and the school was transferred to rented quarters at 36 Taylor street.

Transferred to Pynchon Street School, April, 1914.

TERMS OF ADMISSION.

This school is designed for boys over fourteen years of age, enrolled in the junior high grades.

Tuition for non-residents at this school is $120 per year, payable in advance.

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LIST OF TEXT BOOKS

AUTHORIZED FOR USE IN THE PUBLIC SCHOOLS.

ELEMENTARY SCHOOLS.

READING.

AUTHOR.	TITLE.	GRADE
Andrews, Jane	Ten Boys on the Road from Long ago	VI
Baldwin, James	Fifty Famous Stories Retold	III
Blaisdell	Boy Blue and his Friends	II
Blaisdell, Etta A.	Child Life Reader, 1st to 3d	I-III
Bryce, Katherine	Child-Lore Dramatic Reader	II
Burgess, T. W.	Old Mother West Wind	III
Carroll & Brooks	Fifth Reader	V
Cyr, Ellen M.	Primer	I
Edson-Laing	Edson-Laing Reader, Book I	I
Edson-Laing	Edson-Laing Reader, Book II	II
Free & Treadwell	The Primer	I
Ghosh, Prince	The Wonders of the Jungle	IV
Holbrook, Florence	Hiawatha Primer	II
Howe, W. D.	Third Reader	III
Jones, L. H.	Jones' Third Reader	III
Noyes & Guild	Sunshine Primer	I
Pyle	Adventures of Robin Hood	VI
Osgood, Eulalie Grover	Folklore Primer	I
Osgood, Eulalie Grover	Sunbonnet Babies Primer	I
Perkins, Lucy F.	The Dutch Twins	III
Perkins, Lucy F.	The Dutch Twins Primer	II
Powers & Balliet	Readers	I-VI
Rice & Ketchum	Our Story Reader	I
Shaw, Edward R.	Big People and Little People of Other Lands	III
Stevenson, Augusta	Children's Classics in Dramatic Form	IV
Thompson, J. G. & T. E.	For Childhood Days	I
Wiltse, Sara E.	Folklore Stories and Proverbs	II

GEOGRAPHICAL.

Andrews, Jane	Each and All	V
Andrews, Jane	Seven Little Sisters	IV
Carpenter, Frank G.	Geographical Reader, North America	VI
Carroll, Stella W.	Around the World, Bk. 1	II
Carroll, Stella W.	Around the World, Bk. 2	III
Carroll, Stella W.	Around the World, Bk. 3	IV
Humphrey, F. A.	Little Folks of Other Lands	II
Kirby, Mary & Elizabeth	Aunt Martha's Corner Cupboard	IV
Muir, John	Stickeen	V
Schwatka, Frederick	Children of the Cold	V

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HISTORICAL.

AUTHOR.	TITLE.	GRADE.
Eggleston, Edward	Stories of Great Americans	IV
Ellson & Macmullan	Story of Our Country	IV
Pratt, Mara L.	Legends of the Red Children	VI
Smythe, E. Louise	Old Time Stories	II
Tanner, Dorothy	Legends from the Red Man's Forest	V

ELEMENTARY SCIENCE.

Cooke, Flora J.	Nature Myths	III
Long, William J.	Ways of Wood Folk	V

GENERAL LITERATURE.

Æsop	Fables (Stickney)	IV
Andersen, Hans	Fairy Tales, I & II	V
Baldwin, James	Fairy Stories and Fables	III
Baldwin, James	Old Greek Stories	IV
Beckwith, M. Helen	In Mythland, Vol. I	II
Bellamy, Charles J.	Wonder Children	IV
Carroll, Lewis	Alice's Adventures in Wonderland	V
Cook, Agnes S.	Story of Ulysses	V
Defoe, Daniel	Robinson Crusoe (Lambert)	VI
Hawthorne, N.	Wonder Book	VI
Kingsley, Charles	Water Babies	V
Longfellow, H. W.	Hiawatha	VI
Stockton, Frank R.	Fanciful Tales	V
Wyss, J. D. & J. R.	Swiss Family Robinson (Stickney)	VI

LANGUAGE.

Chancellor	Graded City Speller, Fifth Year	V
Chancellor	Graded City Speller, Sixth Year	VI

ARITHMETIC.

Hoyt & Peet	Everyday Arithmetic, Book I	III, IV
Hoyt & Peet	Everyday Arithmetic, Book II	V, VI
Nichols, W. F.	New Graded Lessons in Arith.	II-VI

GEOGRAPHY.

Tarr and McMurry	Geography, Second Book, Part I	VI
Tarr and McMurry	New Geography, First Book, Part II	V

HISTORY.

Gordy, Wilbur F.	American Leaders and Heroes	V
Gordy, Wilbur F.	American Beginnings in Europe	VI

PHYSIOLOGY.

O'Shea and Kellogg	Health Habits	VI

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MUSIC

AUTHOR.	TITLE.	GRADE.
Zuchtman, F.	New American Music Reader, Book II	III, IV
Zuchtman, F.	New American Music Reader, Book III	V, VI

PENMANSHIP.

Houston, Harry	Writing Lessons	I-IV

DICTIONARY.

Webster, Noah	Shorter School Dictionary	IV-VI

JUNIOR HIGH SCHOOLS.

ENGLISH

		JUNIOR HIGH.
Aldrich	Story of a Bad Boy	I
Arnold	Sohrab and Rustum / Ancient Mariner	III
Browning	Cavalier Tunes	III
Bryant	Iliad	III
Bryant	Odyssey	III
Carpenter	Geographical Reader, Europe	I
Carpenter	Geographical Reader, Asia	I
Cooper	The Spy	I
Dickens	Christmas Carol, etc.	I
Dickens	Tale of Two Cities	III
Emerson and Bender	English Spoken and Written, Book II	I-II
Grenfell	Adrift on an Ice Pan	I
Hale	Man Without a Country	II
Hawthorne	Grandfather's Chair	I
Hawthorne	Tanglewood Tales	I
Homer	Odyssey	III
Hughes	Tom Brown's School Days	III
Longfellow	Tales of a Wayside Inn	II
Longfellow	Selections	I
Martineau	Peasant and Prince	II
McMurry	William Tell Dramatic Reader	I
Scott	Ivanhoe	II
Scott	Kenilworth	II
Scott	Lady of the Lake	III
Scott	Lay of the Last Minstrel	II
Scott	Marmion	II
Scott	The Talisman	II
Shakespeare	Julius Caesar	II
Shakespeare	The Merchant of Venice	III
Shakespeare	Midsummer Night's Dream	III
Stevenson	Treasure Island	I
Webster	English for Business	III

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AUTHOR.	TITLE.	JUNIOR HIGH.
Webster	Shorter School Dictionary	I-III
Whittier	Snowbound	I
Wilson and Winship	The Merrill Speller, Book II	II
	MATHEMATICS.	
Atwood	Exercises in Algebra	III
Hoyt and Peet	Everyday Arithmetic, Book III	I-III
Meservey	Bookkeeping	II
Nichols	New Graded Lessons in Arithmetic, Book VI	I
Spencer	Inventional Geometry	II
VanTuyl	Essentials of Business Arithmetic	III
Wells and Hart	First Year Algebra	II-III
Wells and Hart	New High School Algebra	III
	GEOGRAPHY.	
Dryer	Elementary Economic Geography	II
Morton	Advanced Geography	I
	PHYSIOLOGY.	
O'Shea and Kellogg	Making the Most of Life	I-II
	HISTORY.	
Fiske	War of Independence	I
Gibson	Chart History of the Civil War	I
Gordy	History of the United States	I-II
Scudder	George Washington	I
Tappan	England's Story	I
	FRENCH.	
Chapuzet and Daniels	Mes Premiers Pas en Français	II-III
Gay	Chansons, Poésies et Jeux Français	III
Meras	Le Premier Livre	III
	GERMAN.	
Bagster-Collins	First Book in German	II
Fick	Dies und Das	II-III
Gerstacher	Germelshausen	III
Gronow	Für Kleine Leute	II
Müller and Wenckebach	Glück Auf	II-III
Walter and Krause	Beginners' German	II
	LATIN.	
Smith	Latin Lessons	II-III
	MUSIC	
Zuchtman	New American Music Reader, Book IV	I-III

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PENMANSHIP.

AUTHOR.	TITLE.	JUNIOR HIGH.
Zaner	Writing Manual, No. 144	III
Zaner & Bloser Co.	Zaner Method Writing, Compendium No. 4	I
Zaner & Bloser Co.	Zaner Method Writing, Compendium No. 5	II

SENIOR HIGH SCHOOLS.

CLASSICS.

Text-Books:

AUTHOR.	TITLE.
Allen & Greenough	Cæsar
Allen & Greenough	Latin Grammar
Barss	Cornelius Nepos
Burgess & Bonner	Elementary Greek
D'Ooge	Latin Composition
Fairclough & Brown	Æneid
Gleason	Greek Prose Composition
Greenough & Kittredge	Virgil
Hadley & Allen	Greek Grammar
Harper	Latin Dictionary
Keep	Homer's Iliad (Books I-VI)
Kelsey	Cæsar, Gallic Wars
Kelsey	Cicero
Kelsey	Ovid
Kelsey	Xenophon's Anabasis
Kirtland	Fabulæ Faciles
Pearson	Essentials of Latin
Ritchie	Fabulæ Faciles
Smith	Latin Lessons

Supplementary Book:

Collar	Gate to Cæsar

ENGLISH.

Text-Books:

Addison	Sir Roger de Coverley Papers
Alshouse and Root	A Brief English Grammar
Ashmun	Modern Prose and Poetry for Secondary Schools
Benton	Lincoln and Douglas Debate
Brooks	English Composition, Book I, Enlarged
Brooks & Hubbard	Composition Rhetoric
Browning	Shorter Poems
Buehler	Exercises in English
Bunyan	Pilgrim's Progress
Burke	Speech on Conciliation with America
Burns	Representative Poems with Carlyle's Essay
Canby & Opdycke	Elements of Composition

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AUTHOR.	TITLE.
Carlyle	Essay on Burns
Chew	Practical High School Speller
Coleridge	Ancient Mariner
Cooper	The Last of the Mohicans
De Quincey	English Mail Coach
Eliot	Silas Marner
Emerson	Culture, Books, Power
Foster	Essentials of Exposition and Argument
Fuess	Selected English Letters
Genung & Hanson	Outlines of Composition and Rhetoric
Goldsmith	Vicar of Wakefield
Grenfell	Adrift on an Ice Pan
Halleck	History of American Literature
Hart & Perry	Representative Short Stories
Hitchcock	Enlarged Practice Book in English Composition
Hitchcock	New Practice Book
Hitchcock	Rhetoric and the Study of Literature
Hughes	Tom Brown's School Days
Kittredge & Arnold	Manual of Composition
Lockwood	The Freshman and his College
Long	American Poems
Long	English Literature
Lowell	Vision of Sir Launfal
Macaulay	Lays of Ancient Rome
Macaulay	Essays on Milton and Addison
Macmillan Co.	An Outline for the Study of American Civil Government
Milton	Shorter Poems
Milton	Paradise Lost
Pace	Readings in American Literature
Palmer	Self-Cultivation in English
Parkman	The Oregon Trail
Pope	Iliad
Pope	Rape of the Lock
Sandwick & Bacon	Word Book
Schultze & Joyce	Modern Essays
Scott & Denney	Composition-Rhetoric
Simonds	Student's History of English Literature
Tennyson	Idylls of the King
Tennyson	The Princess
Thompson	British Verse
Webster	Bunker Hill Oration
Webster	English for Business
Williams	Choice Literature, Book VII
Winchester	Book of English Essays
Woolley	Handbook for Composition
Wordsworth	Shorter Poems

Supplementary Books:

Aldrich	Story of a Bad Boy
Arnold	Sohrab and Rustum
Blackmore	Lorna Doone
Brewer	Oral English

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AUTHOR.	TITLE.
Browning	Lady Geraldine, Selected Poems
Bryant	Selections
Bryce	Selected Essays
Byron	Childe Harold
Carlyle	Heroes and Hero Worship
Chaucer	Prologue to Canterbury Tales
De Quincey	Joan of Arc
Dickens	A Tale of Two Cities
Eliot	Education for Efficiency
Ewing	Jackanapes
Franklin	Autobiography
Gardiner, Kittredge & Arnold	Composition and Rhetoric
Gaskell	Cranford
Gayley	Classic Myths
Gayley & Flaherty	Poetry of the People
George	From Chaucer to Arnold
Goldsmith	She Stoops to Conquer
Goldsmith	Deserted Village
Guerber	Myths of Greece and Rome
Hale	Man Without a Country
Harte	Selected Short Stories
Hawthorne	Twice Told Tales
Hawthorne	House of Seven Gables
Holmes	Selections from Breakfast Table Series
Hotchkiss & Drew	Business English
Houghton, Mifflin Co.	Children's Hour
Howell	Silas Lapham
Irving	Life of Oliver Goldsmith
Irving	Alhambra
Irving	Selections from Sketch Book
Jewett	Night before Thanksgiving
Lamb	Essays from Elia
Lockwood & Emerson	Composition and Rhetoric
Long	History of English Literature
Longfellow	Tales of a Wayside Inn
Macaulay	Essay on Clive
Macaulay	Essay on Warren Hastings
Macaulay	Essays on Addison and Johnson
Macaulay	On Life of Samuel Johnson
Mallory	King Arthur Stories
Merrill, C. E., Co.	Selected Short Stories
Nettleton	Old Testament Stories
Palgrave	Golden Treasury
Poe	Poems and Tales
Ruskin	Selected Essays and Letters
Ruskin	Sesame and Lilies
Schurz	Abraham Lincoln
Scott	Lady of the Lake
Scott	Quentin Durward
Scott	Woodstock
Scott, Foresman & Co.	Types of the Short Story
Shakespeare	A Midsummer Night's Dream (Rolfe)
Shakespeare	As You Like It (Longmann)
Shakespeare	Hamlet (Rolfe)

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AUTHOR.	TITLE.
Shakespeare	Julius Cæsar (Rolfe)
Shakespeare	King John (Rolfe)
Shakespeare	King Henry IV (Part I) (Rolfe)
Shakespeare	King Henry IV (Part II) (Rolfe)
Shakespeare	King Henry V (Rolfe)
Shakespeare	King Lear (Rolfe)
Shakespeare	King Richard II (Rolfe)
Shakespeare	King Richard III (Rolfe)
Shakespeare	Macbeth (Rolfe)
Shakespeare	Merchant of Venice (Rolfe)
Shakespeare	Othello (Rolfe)
Shakespeare	Romeo and Juliet
Shakespeare	Tempest (Rolfe)
Shakespeare	Twelfth Night (Rolfe)
Shelley & Keats	Selections
Sheridan	Rivals
Sherman	Short Stories
Simond	American Literature (Student's History of)
Stedman	American Anthology
Stevenson	Travels with a Donkey and Inland Voyage
Stevenson	Treasure Island
Taylor	Lars
Tennyson	Shorter Poems
Thackeray	The Newcomes
Warner	In the Wilderness
Washington	Farewell Address
Webster	Secondary Dictionary
Whittier	Snowbound, Among the Hills, Songs of Labor

FRENCH.

Text-Books:

About	Le Roi des Montagnes
Bacon	New French Course
Bacon	Une Semaine à Paris
Bazin	Contes Choisis
Bazin	Le Blé qui Lève
Bierman & Frank	Conversational French Reader
Bowen, ed.	Modern French Lyrics
Bruce	Dictées Françaises
Bruce	Grammaire Française
Bruno	Le Tour de la France
Cameron	French Prose Composition
Chardenal	Complete French Course
Cherbulier	Le Comte Kostia
Comfort	French Composition
Constanseau	French Dictionary
Corneille	Le Cid
Daudet	La Belle Nivernaise
Daudet	Le Petit Chose
Desnoyers	Les Mésaventures de Jean-Paul Choppart
Dike	Scientific French Reader
Dumas	La Tulipe Noire
Dumas	Monte Cristo
Enault	Le Chien du Capitaine

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AUTHOR.	TITLE.
Feuillet	Le Roman d'un Jeune Homme Pauvre
Foa	Le Petit Robinson de Paris
François	Advanced French Composition
François	Alternate Exercises for Introductory French Prose Composition
François	Beginner's French
François	Introductory French Prose Composition
François & Giroud	Simple French
Fraser & Squair	Shorter French Course
Goodell	L'Enfant Espion
Grandgent	Prose Composition, Part I, based on L'Abbe Constantin
Grandgent	Prose Composition, Part IV, based on La Dernière Classe
Grandgent	Prose Composition, Part V, based on La Pipe de Jean Bart
Guerber	Contes et Légendes
Guerber	Prisoners of the Temple
Halevy	L'Abbé Constantin
Heath	French-English and English-French Dictionary
Hennequin	Lessons in Idiomatic French
Hugo	La Chute
Hugo	Les Misérables
Hugo	Quatre-vingt-treize
Josselyn & Talbot	Elementary Reader of French History
Kimball	Materials for French Composition based on Colomba
La Bedollière	La Mère Michel et Son Chat
Labiche & Martin	La Poudre aux Yeux
Labiche & Martin	Le Voyage de M. Perrichon
La Fontaine	Fables
Lamartine	Jeanne d'Arc
Larousse	Dictionnaire
Larousse	Grammaire Complète
Lemaitre	Contes Estraits de Myrrha
Loti	Pêcheur d'Islande
Mairet	La Tâche du Petit Pierre
Malot	Sans Famille
Marique & Gilson	French Sight Reading
Mérimée	Colomba
Molière	L'Avare
Molière	Le Bourgeois Gentilhomme
de Monvert	La Belle France
de Musset	L'Histoire d'un Merle Blanc
Panet	French Syntax and Composition
Pattun	Causeries en France
Rogers	French Sight Reading
Sand	La Mare au Diable
Sandeau	Mlle. de la Seiglière
Sandeau	Sacs et Parchemins
Sarcey	Le Siège de Paris
Snow & Lebon	Easy French
Souvestre	L'Eclusiér

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AUTHOR.	TITLE.
Souvestre	Un Philosophe sous les Toits
Spiers & Lurenne	French Dictionary
Super	French Reader
Theuriet	L'Abbé Daniel
Tuckerman	Simplicité
Verne	Tour du Monde en Quatre-vingts Jours
Worman	Grammaire Française

Supplementary Books:

Ballard	Short Stories for Oral French
Balzac	Le Curé de Tours
Beaumarchais	Le Barbier de Séville
Bercy	Le Français Pratique
Bruce	French Selections for Sight Translation
Coppée	Le Luthier de Crémone et Le Trésor
Dumas	Les Trois Mousquetaires
Duval	Petite Histoire de la Littérature Française
Erckmann-Chatrian	Le Conscrit de 1813
Fortier	Histoire de France
Fortier	Sept Grands Auteurs
Foncin	Le Pays de France
Kuhn	French Readings for Beginners
Lavisse	La Deuxième Année d'Histoire de France
Legouvé & Labiche	La Cigale chez les Fourmis
Mairet	L'Enfant de la Lune
Mariette	Half Hours of French Translation
de Musset	Trois Comédies
de Ruy, Rachel	Rondes Enfantines
Sand	La Famille de Germandre
Super	Anecdotes Faciles
Syms	Easy French Reader
Syms	Selected Letters of Madame de Sévigné
Syms	Le Chien de Brisquet
Talbot	Le Français et Sa Patrie
Topffer	La Bibliothèque de Mon Oncle
Zola	La Débâcle

GERMAN.

Text-Books:

Arnold	Ein Regentag auf dem Lande
Arnold	Fritz auf Ferien
Bacon	German Composition
Bacon	German Grammar for Beginners
Bagster-Collins	First Year in German
Baumbach	Das Habichtsfräulein
Baumbach	Der Schwiegersohn
Baumbach	Im Zwielicht
Brandt	German Reader
Chamisso	Peter Schlemihl
Chiles	German Prose Composition
Collar	Shorter Eysenbach
Dippold	Scientific German Reader
Erk	Liederschatz

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AUTHOR.	TITLE.
Ernst	Flachsmann als Erzicher
Freytag	Aus dem Staat Freidrichs des Grossen
Freytag	Karl der Grosse
Fulda	Der Talisman
Gerstacker	Germelshausen
Goethe	Dichtung und Wahrheit
Goethe	Hermann und Dorothea
Greenfield	Brief Summary of German Grammar
Guerber	Märchen und Erzählungen
Hatfield	Materials for German Composition, based on Höher als die Kirche
Heath	German Dictionary
Heine	Die Harzreise
Heyse	Er Soll Dein Herr Sein
Heyse	L'Arrabbiata
von Hillern	Höher als die Kirche
Holzwarth	Grüss aus Deutschland
Huss	German Reader
Jagemann	German Prose Composition
Jagemann	German Syntax
Joynes & Wesselhoeft	German Lesson Grammar
Kayser & Monteser	A Brief German Course
Kayser & Monteser	Foundations of German
Kayser & Monteser	German Grammar
Keller	Kleider machen Leute
Klenze	Deutsche Geschichte
Kohlrausch	Das Jahr 1813
Leander	Traumereien
Lessing	Minna von Barnhelm
Moltke	Die Beiden Freunde
Mondan	German Selections for Sight Translations
Muller & Wenckebach	Glück Auf
Münchausen	Reisen
Pope	German Composition
Riehl	Der Fluch der Schonheit
Schiller	Das Lied der Glocke
Schiller	Der Neffe als Onkel
Schiller	Jungfrau von Orleans
Schiller	Thirty Years' War (Book III)
Schiller	Wilhelm Tell
Stolze	Bunte Geschichten
Seidel	Die Monate
Seidel	Leberecht Hühnchen
Spanhoofd	Deutsche Grammatik
Stifter	Das Heidedorf
Storm	Geschichten aus der Tonne
Storm	Immensee
Stroebe und Whitney	Geschichte der Deutschen Literatur
Thomas	German Grammar
Tuckerman	Am Anfang
Vos	Essentials of German
Vos	Materials for German Conversation
Wells	Drei kleine Lustspiele
Wenckebach, ed.	Die Schönsten Deutschen Lieder

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AUTHOR.	TITLE.
Whitney & Stroebe	Easy German Composition
von Wildenbruch	Das Edle Blut
Supplementary Books:	
Auerbach	Brigitta
Bacon	Im Vaterland
Benedix	Nein
Bernhardt	Novelletten Bibliothek
Bernhardt	Stille Wasser
Bierwirth	Words of Frequent Occurrence
Ebner-Eschenbach	Krambambuli
Freytag	Aus dem Jahrhundert des GrossenKrieges
Frommel	Eingeschneit
Gore	German Science Reader
Groller	Inkognito
Heyse	Anfang und Ende
Heyse	Das Mädchen von Treppi
Keller	Bilder aus der Deutschen Literatur
Lessing	Nathan der Weise
Meissner	Aus Meiner Welt
Moser	Der Bibliotekar
Moser	Willkommen in Deutschland
Riehl	Burg Neideck
Spyri	Rosenresli (ed. Boll)
Sudermann	Teja
Zschokke	Der zerbrochene Krug
	SPANISH.
Coester	A Spanish Grammar
Crawford	Spanish Composition
Des Garennes	Introduction a la Lengua Castellana
Harrison	Spanish Commercial Reader
Hills	Spanish Tales for Beginners
Howland	Zaragueta
Roessler & Remy	First Spanish Reader
Supple	Spanish Reader of South American History
Velasquez	English-Spanish Dictionary
	HISTORY.
Text-Books:	
Andrews	A History of England
Ashley	American Government
Ashley	Medieval Civilization
Botsford	A History of Greece
Botsford	A History of Rome
Botsford	History of Ancient World
Breasted	Ancient Times,—A History of the Early World
Bryce	American Commonwealth
Channing	Student's History of the United States
Cheyney	History of England
Emerton	Introduction to the Middle Ages

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AUTHOR.	TITLE.
Forman	Advanced American History
Guitteau	Government and Politics in the U. S.
Hazen	Modern European History
McLaughlin	American Nation
Monro	Middle Ages
Moore	Industrial History of the American People
Muzzey	American History
Myers	Ancient History
Myers	General History
Myers	Greece
Myers	Middle Ages
Myers	Modern Age
Myers	Rome; Its Rise and Fall
Nida	State and Nation
Oman	A History of Greece
Robinson & Beard	Development of Modern Europe
Robinson & Beard	Outlines of European History, Part II
Robinson & Breasted	Outlines of European History, Part I
Smith	Commerce and Industry
Walker	Political Economy
Webster	Ancient History
West	Modern History
Westerman	Story of the Ancient Nations
Woodburn & Moran	American History and Government
Wrong	History of the British Nation

Supplementary Books:

Church	Greek Life and Story
Church	Stories from Herodotus
Church	Stories of the Persian Wars
Davis	Readings in Ancient History, Vols. I and II
Fiske	Civil Government in the United States
Goodspeed	History of the Ancient World
Hart	Source Book of American History
James & Sanford	Government in State and Nation
Larned	History of England
Mackenzie	The Nineteenth Century
Montgomery	Leading Facts of French History
Montgomery	Leading Facts in English History
Myers	Mediæval and Modern History
Sheldon	General History
Webster	History of Commerce
Wilson	The State
Witt	Retreat of the Ten Thousand
Wright	Industrial Evolution of the United States
Wrong	History of the British Nation
	Municipal Register of Springfield

MATHEMATICS.

Text-Books:

Anthony & Ashley	Descriptive Geometry
Atwood	Exercises in Algebra
Collins	Practical Algebra, First Year Course

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AUTHOR.	TITLE.
Hawkes	Advanced Algebra
Jameson	Elementary Practical Mechanics
McCurdy	Exercise Book in Algebra
Merriman	Strength of Materials
Phillips & Strong	Elements of Trigonometry
Rivenburg	A Review of Algebra
Robbins and Somerville	Exercises in Algebra
Schultze & Sevenoak	Plane Geometry
Stone & Millis	Elementary Algebra
Wells	New Higher Algebra
Wells	Plane Trigonometry with Tables
Wells & Hart	First Year Algebra
Wells & Hart	New High School Algebra
Wentworth	Elements of Algebra
Wentworth	Plane and Solid Geometry
Wentworth & Smith	Plane Geometry
Wentworth & Smith	Solid Geometry

Supplementary Books:

Bailey & Woods	Analytic Geometry
Crawley	Table of Logarithms
Fine	College Algebra
Holton	Shop Mathematics
Longmans	School Mensuration
Sheperd	Problems in Strength of Materials
Wells	Algebra for Secondary Schools
Wentworth	College Algebra
Wentworth	Plane Trigonometry

SCIENCE.

Text-Books:

Adams	First Course in Physics
Allyn	Elementary Applied Chemistry
Atkinson	Lessons in Botany
Bergen & Davis	Laboratory and Field Manual of Botany
Black & Davis	Practical Physics
Brownlee	First Principles of Chemistry
Butler	Household Physics
Carhart & Chute	High School Physics
Colton	Briefer Course in Physiology
Comstock	Astronomy
Dryer	Physical Geography
Elhuff	General Science, First Course
Fairbanks	Physiography
Hessler	First Year Science
Hough & Sedgwick	Elements of Hygiene and Sanitation
Irish	Qualitative Analysis
Jackson	An Elementary Book on Electricity and Magnetism
Kinne & Cooley	Foods and Household Management
Kinne & Cooley	Shelter and Clothing

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AUTHOR.	TITLE.
Miller	Progressive Problems in Physics
Morgan and Lyman	Chemistry
Newell	Descriptive Chemistry
Newell	Experimental Chemistry
Norton	Food and Dietetics
Osterhout	Experiments with Plants
Peabody	Studies in Physiology
Remsen	Elements of Chemistry
Remsen	Briefer Course
Sheaffer	Household Accounting
Smith	Elementary Chemistry
Smith	General Chemistry for Colleges
Tarr	New Physical Geography

Supplementary Books:

Bailey	Sanitary and Applied Chemistry
Chittenden	Nutrition of Man
Conn	Bacteria, Yeasts, and Molds in the Home
Cotton	Care of Children
Coulter	Plant Relations
Coulter	Plant Structures
Gray	Botany
Hortvet	Elementary Practical Physics
Howell	Text-Book of Physiology
Lusk	Science of Nutrition
Martin	The Human Body
Olsen	Pure Foods
Richards	Chemistry of Cooking and Cleaning
Sherman	Chemistry of Food and Nutrition
Walters	Physiology and Hygiene

MECHANICAL DRAWING.

Text-Book:

Hoffman	Elementary Machine Design

MUSIC.

Birchard	School Song Book
Birchard	Standard Songs No. 7
Dann	School Hymnal
McConathy	The School Song Book
Tomlins	The Laurel Song Book

COMMERCIAL.

Text-Books:

Adams	Commercial Geography
Belding	Commercial Correspondence
Bennett	Bookkeeping and Accounting Exercises, Part I
Bennett	Bookkeeping and Accounting Exercises, Part II

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AUTHOR.	TITLE.
Bullock	Introduction to Study of Economics
Coman	Industrial History of United States
Eldridge	Business Speller
Eldridge	Shorthand Dictation Exercises
Ellis	Practical Bookkeeping
Fritze-Eldridge	Expert Typewriting
Gano	Commercial Law
Gilbert & Brigham	Introduction to Physical Geography
Herrick	History of Commerce
Klein	Elements of Accounting
Pitman	Course in Isaac Pitman Shorthand
Pitman	Progressive Dictator
Pitman	Selections from American Authors
Poates	Complete Atlas of the World
Redway	Commercial Geography
Van Tuyl	Complete Business Arithmetic
Van Tuyl	Essentials of Business Arithmetic
Webster	General History of Commerce
Williams & Rogers	Bookkeeping and Business Practice
Zaner & Bloser	Arm Movement Writing Manual No. 144
Supplementary Books:	
Green	History of Springfield
Smith	Proof Reading and Punctuation
Thurston	Economics and Industrial History
Webster	Little Gem Dictionary

JUNIOR COLLEGE.

CLASSICS.

Text-Books:	
Allen & Greenough	Latin Grammar
Burgess & Bonner	Elementary Greek
Burton	Selections from Livy
Gleason	Greek Prose Composition
Hadley & Allen	Greek Grammar
Kelsey	Xenophon's Anabasis
Lewis	Elementary Latin Dictionary
Shorey & Laing	Horace

ENGLISH.

Hersey & Greenough	English Composition
Rice	College and the Future

FRENCH.

Corneille	Le Cid
France	Le Crime de Sylvestre Bonnard
Fraser & Squair	French Grammar
Hugo	Poems (Schinz edition)

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AUTHOR.	TITLE.
Molière	Le Tartuffe
Racine	Athalie
Schinz	Seventeenth Century French Readings
Supplementary Books:	
Corneille	Horace
Corneille	Polyeute
Doumic	Histoire de la Litérature Française
Fortier	Histoire de France
Gauthier	Jettatura
LaFayette	La Princesse de Cleves
Molière	Les Précieuses Ridicules
Racine	Andromaque
Racine	Britannicus

GERMAN.

Text-Books:	
Boezinger	Mundliche und schriftliche Uebungen
Bernstorff	Handbook of German Composition
Fulda	Das verlorene Paradise
Goethe	Egmont
Hauff	Lichenstein
Hebble	Agnes Bernauer
Keller	Kleider machen Leute
Klenze	Deutsche Geschichte
Raabe	Elsa von der Tanne
Schiller	Maria Stuart
Schiller	Wallenstein
Sudermann	Der Katzensteg
Supplementary Books:	
Boezinger	Zweites Aufsatzbuch
Goethe	Iphigenie auf Taurus
Heyse	Das Madchen von Treppi
Meyer	Der Schuss von der Kanzel
Morgan	Elementary German Syntax
Raabe	Eulenpfingsten
Sudermann	Frau Sorge
von Wildernbruch	Lachendes Land

HISTORY.

Text-Books:	
Hazen	Modern European History
Robinson	History of Western Europe

MATHEMATICS.

Phillips & Strong	Plane Trigonometry
Wells	Plane Trigonometry
Wentworth & Smith	Solid Geometry

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EVENING HIGH SCHOOL.

MATHEMATICS.

AUTHOR.	TITLE.
Ellis	Practical Bookkeeping
Hoyt & Peet	Everyday Arithmetic, Book III
Kester	Accounting, Theory and Practice
Moore	New Commercial Arithmetic
Moore & Miner	Concise Business Arithmetic
Nichols	Arithmetical Problems
Nichols	Graded Lessons in Arithmetic, Book IV
Schultz	Elements of Algebra
Wells	Higher Algebra
Wentworth	Grammar School Arithmetic
Wentworth	New Plane and Solid Geometry

SCIENCE.

Allen	Elementary Applied Chemistry
Carhart & Chute	First Principles of Physics
Carhart & Chute	High School Physics
Irish	Qualitative Analysis for Secondary Schools
Remsen	Chemistry
Remsen	Laboratory Manual
Williams	Essentials of Chemistry

GERMAN.

Bagster-Collins	First Book in German

FRENCH.

Bacon	Une Semaine à Paris
Ballard	Short Stories for Oral French
Bierman & Frank	Conversational French Reader
Comfort	French Prose Composition
François	Introductory French Prose Composition
Fraser & Squair	Shorter French Course
Grandgent	French Composition
Guerber	Contes et Légendes
Halévy	L'Abbé Constantin
Mérimé	Colomba
Syms	Easy French Reader
Talbot	Le Français et sa Patrie
Tuckerman	Simplicité

SPANISH.

Isaacs	Maria
Legundo	El Lector Americano
Morse	Spanish-American Life
Worman	First Year Spanish

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ENGLISH.

AUTHOR.	TITLE.
Aldrich	Story of a Bad Boy
Burt & Cable	Don Quixote
Chandellor	Standard Short Course
Dickens	Tale of Two Cities
Dickens	Little Nell
Eliot	Silas Marner
Goldsmith	The Deserted Village
Goldsmith	Plays of Oliver Goldsmith
Hitchcock	New Practice Book
Holmes	From the Breakfast Table Series
Holmes	Grandmother's Story
Hotchkiss & Drew	Business English
Irving	Sketch Book
Johnson	Arabian Nights
Lockwood & Emerson	Composition and Rhetoric
Longfellow	Evangeline, etc.
Longfellow	Tales of a Wayside Inn
Lowell	Vision of Sir Launfal
Poe	Poems and Tales
Pyle	Robin Hood
Scott	Ivanhoe
Scott	Quentin Durward
Shakespeare	Macbeth
Shakespeare	Merchant of Venice
Stevenson	Treasure Island
Sykes	English Composition for Grammar Schools
Tennyson	The Princess
Wallach	Secondary Book in English for Foreigners
Webster	English for Business
Webster	Shorter School Dictionary
Whittier	Snowbound, Tent on the Beach, and Favorite Poems
Williams	Choice Literature
Wood	Practical Grammar and Composition

HISTORY.

Gordy	History of the United States

GEOGRAPHY.

Carpenter	Geographical Reader—North America
Morton	Advanced Geography

COMMERCIAL LAW.

Gano	Commercial Law
Guitteau	Government and Politics in the United States

STENOGRAPHY.

Pitman	Progressive Dictator
Pitman	Brief Course in Isaac Pitman Shorthand

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ELEMENTARY EVENING SCHOOLS.

Any day school book may be used and, in addition, the following:

AUTHOR.	TITLE.
Alexander	Spelling Book
Bryce	Folk-lore from Foreign Lands
Chancellor	Standard Short Course for Evening Schools
Field and Coveney	English for New Americans
Mintz	New American Citizen
O'Brien	English for Foreigners
Ryan & Prior	How to Learn English
White	Intermediate Arithmetic
Wood	Practical Grammar and Composition

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LOCATION OF PUBLIC SCHOOLS

WITH THE AREA OF THEIR LOTS AND THE TERRITORIAL BOUNDARIES OF THE DISTRICTS.

CENTRAL HIGH SCHOOL.—On the south side of State street, between School and Maple streets. Area of lot, 79,874 square feet.

District: The whole city.

HIGH SCHOOL OF COMMERCE.—State street, opposite U. S. Armory. Area of lot, 129,480 square feet.

District: The whole city.

TECHNICAL HIGH SCHOOL.—On the east side of Elliott street. Area of lot, 66,785 square feet.

District: The whole city.

VOCATIONAL SCHOOL.—62 Pynchon street. Area of lot, 14,013 square feet.

District: The whole city.

OPEN-AIR SCHOOL.—On the west side of Chestnut street, between Harriet and Cumberland streets.

District: The whole city.

ACUSHNET AVENUE ELEMENTARY SCHOOL.—On the east side of Main street, corner of Acushnet avenue. Area of lot, 33,680 square feet.

For grades I to III this district is bounded on the north by Loring and Central streets (not including them); on the east by the Central street district; on the south by Nos. 49 and 50 on Long Hill street and 1189 on Main street.

For grades IV. and V., the northern boundary of this district is Fremont and Central streets (including them); on the east and south the same as for primary grades.

ALDEN STREET ELEMENTARY SCHOOL.—Alden street, near the junction of Walnut and Hancock streets. Area of lot, 19,765 square feet.

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This district extends from the junction of Hancock and Central streets along Hancock to Florence street; along Florence (not including it) to Pine; Pine to Cedar; along Cedar, James, and King streets to Nelson street; along Nelson and Greene streets (not including these two streets) to Eastern avenue; along Eastern avenue (not including it) to Manhattan street; along Manhattan street (not including it) to Walnut street; along Walnut to Hickory, and along Hickory to the junction of Hancock and Central streets.

Pupils living on Alden street east of Nos. 78 and 85 attend the Eastern avenue school.

Armory Street Elementary School.—On the west side of Armory street a short distance north of its junction with Liberty street. Area of lot, 56,700 square feet.

This district is bounded on the south by the Boston and Albany railroad, on the west by Webster street. The eastern boundary is Eddy street. No northern boundary is fixed. That part of the Charles street district bounded by Franklin and Webster streets, the Boston and Albany railroad and Cass street (including these streets) is a part of the Armory street district for pupils above grade IV B.

Barrows Elementary School.—On the southeast corner of Oak and Tyler streets, near the junction of Oak and Walnut streets. Area of lot, 37,498 square feet.

This district extends from the Boston and Albany railroad southerly along Federal and Walnut streets to Pine; along Pine street to Ashley; Ashley (not including it) to Hancock; along Alden street (not including it) to the New England railroad; along the New England railroad to Tyler street, and along Tyler to Hancock; along Hancock to State; through the middle of State street to Magazine street; along Magazine and Armory streets to the Boston and Albany railroad (including Armory street court).

The section bounded by Hickory street, Watershops pond, King street, and the New England railroad is also included in this district.

The children of grades I. to V., residing in that part of the Barrows district which is included in the Eastern avenue district, will attend the Eastern avenue school.

The children of grades I. to IV., residing in that part of the Barrows district which is included in the Alden street, Strickland, and East Union street districts, will attend the Alden street, Strickland, and East Union street schools.

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BOSTON ROAD ELEMENTARY SCHOOL.—On the north side of Boston road, a little east of Jasper street, about three and one-half miles from Court Square. Area of lot, 22,500 square feet.

This district is bounded on the south by Balis street (including it); on the east by the north branch of Mill river; on the north by a line drawn from the north branch of Mill river, through Arlington avenue (not including it) to Boston road, along Boston road, through Brandon avenue, across the Boston and Albany railroad, along Lake Drive, through Superior street. There is no western boundary fixed.

BRIGHTWOOD ELEMENTARY SCHOOL.—Northeast corner of Plainfield street and Talcott avenue. Area of lot, 32,355 square feet.

The eastern boundary is the Boston and Maine railroad. The southern boundary is West street.

BUCKINGHAM JUNIOR HIGH AND ELEMENTARY SCHOOL.—On the southeast corner of Eastern avenue and Wilbraham road near Winchester Park. Area of lot, 94,570 square feet.

Pupils of grades V. through Junior High, living in the Homer street district, and pupils of Junior High grades, living in the Tapley and Dry Bridge districts, attend Buckingham school.

NOTE.—Pupils in the Tapley district living west of Harvard street and north of St. James avenue may attend the State street school at the option of their parents.

Children of the Barrows district living north of King street (including it) and east of Oak and Walnut streets (not including them) attend the Buckingham school in Junior High grades. Children of grades V. through Junior High, living in the East Union street district north of Tyler street (not including it) and east of Hancock street, attend the Buckingham school.

CAREW STREET ELEMENTARY SCHOOL.—On the south side of Carew street, near Main street. Area of lot, 35,911 square feet.

This district is bounded on the north by Sargeant, Carew, and Arbor streets (including them); on the east by Cass street north of Linden (including it). Thence the boundary line extends along Linden to Chestnut street and down Chestnut to Tenth street, through Tenth and Vine streets (including them). The western boundary is the Boston and Maine railroad. Everett and Butler streets east of Cass street are included in this district.

Pupils of grades I. to V., inclusive, residing on Emery and Clinton streets attend this school.

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CENTRAL STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—Corner of Central and Spruce streets. Area of lot, 55,460 square feet.

This district extends from the U. S. Watershops westerly along Mill river to the junction of Mill and Locust streets; along Mill to Pine streets; thence in a straight line to the junction of Maple and Central; Central to Cedar to Ashley; along Ashley to Alden, and along Alden to Hickory street. This district also includes Madison avenue and Sterns terrace.

Pupils of grades I. to IV., inclusive, residing in that part of the Alden street district which lies within the boundaries of the Central street district, attend the Alden street school.

Pupils of grades I. to V., inclusive, residing in that part of the Eastern avenue district which lies within the boundaries of the Central street district, attend the Eastern avenue school.

Pupils of Junior High grades, residing in that part of the Barrows district bounded by Pine, Walnut, and King streets easterly to Bonnyview avenue, including these streets, attend the Central street school.

CHARLES STREET ELEMENTARY SCHOOL.—On the north side of Franklin street, opposite Charles street. Area of lot, 9,856 square feet.

This district is bounded on the north by Tenth and Linden streets (not including them); on the east by Cass street (including it), south of Linden, along Franklin to Webster (including Franklin and all of Webster street); on the south by the Boston and Albany railroad; on the west by a line cutting Greenwood and Franklin streets at Nos. 93 and 94 (not including these numbers), Congress street east of Nos. 58 and 59 (including these numbers), and by Chestnut street from Tenth street to the Boston and Albany railroad.

CHESTNUT STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—On the east side of Chestnut street, near Prospect street. Area of lot, 138,794 square feet.

This district includes all the territory in the northern part of the city, the southern boundary being the Boston and Albany railroad.

Pupils of grades VI. and VII. residing in those parts of this district which are included in the Lincoln, Worthington street, and Armory streets districts attend the latter schools.

DRY BRIDGE ELEMENTARY SCHOOL.—On St. James circle near St. James avenue. Area of lot, 11,530 square feet.

This district is bounded on the south by the Boston and Albany railroad and on the west by Eddy street (not including it).

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EASTERN AVENUE ELEMENTARY SCHOOL.—On the corner of Eastern avenue and Alden street. Area of lot, 27,560 square feet.

This district is bounded on the north by King street, from Nelson street to its easterly terminus; on the west by Nelson street from King to Greene streets, thence the boundary line extends along Greene street to Eastern avenue; along Eastern avenue to Manhattan street; along Manhattan to Walnut; along Walnut to Hickory; along Hickory east to Bonnyview avenue. All the foregoing streets, except Walnut, are included in this district.

EAST MAIN STREET ELEMENTARY SCHOOL.—Main street, Indian Orchard. Area of lot, 30,122 square feet.

This district includes that section of Indian Orchard (for grades I. to IV B only) lying east of Cedar street (not including it).

EAST UNION STREET ELEMENTARY SCHOOL.—On the north side of Union street, between Hancock street and Eastern avenue. Area of lot, 24,298 square feet.

This district extends from the New England railroad westerly along Wilbraham road and the middle of State street to Hancock; along Hancock to King street; along King street (not including it) to the railroad; along the railroad to Wilbraham road.

FOREST PARK JUNIOR HIGH AND ELEMENTARY SCHOOL.—On Garfield street, off Belmont avenue. Area of lot, 120,118 square feet.

All the children of grades VI. through Junior High, living in the Sumner avenue and Kensington avenue school districts, and all children of Junior High grades living in the White street school district, will attend this school.

GLENWOOD ELEMENTARY SCHOOL.—On the north side of Springfield street, near its junction with Armory street, and near the Chicopee line. Area of lot, 43,656 square feet.

HOMER STREET ELEMENTARY SCHOOL.—On Homer street, between State street and Wilbraham road. Area of lot, 53,469 square feet.

This district is bounded on the west and south by the East Union street, Eastern avenue, and Tapley school districts; on the north by the Boston and Albany railroad and the Tapley district; on the east by a line drawn from the Boston and Albany railroad through Balis street (not including it).

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HOOKER ELEMENTARY SCHOOL.—On the east side of Main street, between Tenth and Greenwood streets. Area of lot, 33,407 square feet.

This district is bounded on the north by Tenth and Vine streets (not including them); on the east by a line cutting Greenwood and Franklin streets at Nos. 93 and 94 (including them), Congress street at Nos. 58 and 59 (not including them), Sharon street at Nos. 135 and 136 (not including them), Ferry street at Nos. 169 and 172 and Liberty street at No. 76 (including them); on the south by the Boston and Albany railroad; on the west by Fulton street from Vine street to Cypress street (not including Clinton and Emery streets). Main street from Tenth street to the arch is included in this district.

For grades IV. and V., this district is bounded on the east by Chestnut street between Tenth and Sharon streets.

This district includes Congress streets in grades IV. and V.

HOWARD STREET ELEMENTARY SCHOOL.—On the south side of Howard street. Area of lot, 71,210 square feet.

This district is bounded on the north by Bridge street (not including it between Main and Chestnut streets); on the east by Chestnut and Maple streets (not including these streets) from Bridge street to Union street; on the south by Union street.

Children of grades VI. and VII. living in the Acushnet avenue school district and children of grades IV. A to VII. living in the William street school district also attend this school.

All the streets mentioned above are included in this district, except when otherwise stated.

Mill street and the easterly half of Central street, between Main and Maple streets, are regarded as belonging to Central street district for those who prefer it on account of its nearness.

JEFFERSON AVENUE ELEMENTARY SCHOOL.—On the south side of Jefferson avenue, corner of North street. Area of lot, 20,003 square feet.

This district is bounded on the north by Calhoun and Huntington streets (not including them); on the west by the Boston and Maine railroad; on the south by Sargeant and Carew streets (not including them), no eastern boundary being fixed for this district.

KENSINGTON AVENUE ELEMENTARY SCHOOL.—On the south side of Kensington avenue, between Earl and Oakland streets. Area of lot, 110,320 square feet.

This district is bounded on the north by Mill river and on the south by Forest Park. The eastern boundary line extends from the New England railroad along Randall avenue, Thayer avenue, White and Pasadena

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streets (not including any of these streets) to Alderman street, along Alderman street to Sorrento street, along Sorrento street to Sumner avenue, along Sumner avenue to Dickinson street, and along Dickinson street to Longmeadow line. The western boundary line extends from Bellevue avenue along Belmont avenue (including it) to Garfield street; along Garfield and Churchill streets (not including them) to Forest Park.

LINCOLN ELEMENTARY SCHOOL.—On the west side of Chestnut street, between Harriet and Cumberland streets. Area of lot, 30,713 square feet.

This district is bounded on the west by the Boston and Maine railroad; on the south by Calhoun and Huntington streets (not including them), no boundaries being fixed for the northern and eastern sides of this district.

MYRTLE STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—At the corner of Worcester and Myrtle streets, Indian Orchard. Area of lot, 54,639 square feet.

This district includes Indian Orchard, except that in grades I to IVB inclusive, the section west of Cedar street only is included.

RUSHVILLE PORTABLE ELEMENTARY SCHOOL.—On the south side of Dewey street, near Berkshire avenue. Area of lot, 87,120 square feet.

This district extends on the north from Superior street; along Lake Drive; across the Boston and Albany railroad; along Brandon avenue to Boston road; along Boston road to Arlington avenue; along Arlington avenue (not including it) to north branch of Mill river. The eastern boundary is the north branch of Mill river. The southern boundary is along Morton avenue and Bay street (not including Bay street) to Boston and Albany railroad. There is no western boundary fixed.

SCHOOL STREET ELEMENTARY SCHOOL.—Southeast corner of School and High streets. Area of lot, 86,156 square feet.

This district is bounded on the north by Pearl street (not including it), and by State from Byers street to Walnut street; on the west by Chestnut and Maple streets, from Pearl to Avon place; on the south by Avon place, Mulberry and Union streets to Walnut, and on the east by Walnut street (not including it), including the streets mentioned, except when otherwise stated.

STATE STREET JUNIOR HIGH SCHOOL.—On the south side of State street, west of the Central High school. Area of lot, 30,992 square feet.

This school is for pupils of Junior High grades, residing in that part

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of the Barrows district west of Bowdoin street (not including it) and west of and including Oak and Walnut streets to Pine street. It further includes pupils of Junior II and III from the Howard street district, and all Junior High pupils from that part of the Worthington street district south of the railroad.

Pupils of Junior High grades residing in the School street district also attend this school.

Pupils of Junior High grades, living in that part of the Tapley district west of Harvard street and north of St. James avenue, may attend the State street school at the option of their parents.

STRICKLAND ELEMENTARY SCHOOL.—On the southwest corner of Oak and Union streets. Area of lot, 15,753 square feet.

From the Boston and Albany railroad along Armory street to Worthington (including Armory street court); Worthington to Magazine; along Magazine to State; through the middle of State street easterly to Hancock; along Hancock (not including it) to King; along King and James streets (not including these streets) to Cedar; along Cedar (not including it) to Pine; along Pine to Walnut; along Walnut and Federal streets to the Boston and Albany railroad.

SUMNER AVENUE ELEMENTARY SCHOOL.—On the south side of Sumner avenue between Beechwood avenue and Long Hill street. Area of lot, 98,000 square feet.

This district is bounded on the north by Mill river; on the east the boundary line extends along Belmont avenue from Mill river to Bellevue avenue, and continuing along Belmont avenue to Garfield street (not including this latter section of Belmont avenue), along Garfield street to Churchill street, along Churchill street to Forest Park (including these two streets); on the south by Forest Park and by Sumner avenue (between Churchill street and Forest Park avenue). In addition, the district shall include Woodside terrace and Leyfred terrace.

Children of kindergarten age living in the section bounded by Churchill street, Garfield street, Belmont avenue, Dickinson street (from Belmont avenue to Forest Park), and Forest Park, and also children living on Mill street (from Locust street to Pine street), may attend the Sumner avenue school at the option of their parents, and children from these sections who are regular attendants of the Sumner avenue kindergarten will be enrolled as pupils of the school upon their promotion to first grade. If there is room for them, children from these sections applying for admission to grades above the first will be enrolled in the school, with the understanding

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that they will be transferred to their own particular districts as soon as the grade is filled by pupils residing within the Sumner avenue school district.

Children living in the section bounded by Trafton road, Dickinson street and Maryland street may attend this school.

TAPLEY ELEMENTARY SCHOOL.—On the southwest corner of Bay and Sherman streets. Area of lot, 92,626 square feet.

This district extends from the Boston and Albany railroad along Bowdoin street to Worthington; along Worthington westerly to Magazine street; along Magazine (not including it) to State; through the middle of State street easterly to the New England railroad; along this railroad to Burr street; Burr to Oak Grove avenue; Oak Grove avenue to Bay; along Bay street to the Boston and Albany railroad (including Aster, Goldenrod, Arbutus, and Baywood streets); along the Boston and Albany railroad to Bowdoin street.

Children of the Dry Bridge district attend the Tapley school for grades V and VI.

WASHINGTON PORTABLE PRIMARY SCHOOL.—On the corner of Woodlawn avenue and Washington street. Area of lot, 87,120 square feet.

This district is bounded on the west by Dickinson street (not including it) from Sumner avenue east to the Longmeadow line. The northern boundary is as follows: Beginning at the corner of Sumner avenue and Dickinson street, along Sumner avenue (not including it) to Orlando street (only including numbers beyond 32 on latter street), through Bryant street (only including numbers beyond 38), through Lyndale street (only including numbers beyond 48), through Whittier avenue (only including numbers beyond 52); through Whittier court to White street, to Morningside Park through to Bethel street, not including these streets.

Children living in the section bounded by Trafton road, Dickinson street and Maryland street may attend this school.

WHITE STREET ELEMENTARY SCHOOL.—On the west side of White street between Dawson avenue and Buckler street. Area of lot, 100,000 square feet.

This district is bounded on the north by Randall and Thayer avenues (including them); on the west the boundary line extends along Pasadena street to Alderman street, along Alderman street to Sorrento street, and along Sorrento street (not including it) to Sumner avenue, along Sumner avenue to Dickinson street, along Dickinson street to the Longmeadow

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line. On the south this district is bounded by Longmeadow, no eastern boundary being fixed.

Pupils of Grades I to IIIB inclusive, living in that part of the district of White street school which lies within the boundaries of the Washington Portable School, attend the latter school.

WILLIAM STREET ELEMENTARY SCHOOL.—On the south side of William street between Main and Water streets. Area of lot, 35,602 square feet.

This district is bounded on the north by Union street (not including it); on the east by Maple street (not including it); and on the south by Loring and Central streets, including these streets.

WORTHINGTON STREET ELEMENTARY SCHOOL.—On the south side of Worthington street, east of Spring street. Area of lot, 30,756 square feet.

This district includes, north of the Boston and Albany railroad, pupils of grades I to VI, inclusive, living on Sharon street east of Nos. 135 and 136 (including them); on Ferry street east of Nos. 169 and 172 (not including it); and on Liberty street at No. 76 (not including it) and Chestnut street. It also includes pupils of grades IV to VI, inclusive, living on Chestnut street south of Sharon street.

On the south side of the Boston and Albany railroad, the boundary line for grades I to VI, inclusive, extends along the Connecticut river to Bridge street, along Bridge street to Chestnut, including Bridge street only from Main to Chestnut; thence along Chestnut to Pearl, along Pearl to Federal, and along Federal to the Boston and Albany railroad, all the streets named being included.

FIVE MILE POND UNGRADED SCHOOL.—At Dimmock's Corner, on the Boston road about five miles from Court Square. Area of lot, 18,887 square feet.

SIXTEEN ACRES UNGRADED SCHOOL.—Near Sixteen Acres pond, and near the junction of North Wilbraham road with the road leading from Ludlow to East Longmeadow, about six miles from Court Square. Area of lot, 15,056 square feet.

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STATISTICS OF THE

SPRINGFIELD HIGH SCHOOLS.

CENTRAL HIGH SCHOOL

Year.	Number of Pupils.	Number of Graduates.	Year.	Number of Pupils.	Number of Graduates.
1849	158		1884	322	49
1850	170		1885	348	34
1851	185		1886	379	43
1852	159		‡1887	372	61
1853	170		1888	370	52
1854	176		1889	344	61
1855	186		1890	345	45
*1856	166	9	1891	391	56
1857	156	14	1892	408	52
1858	172	14	1893	429	53
1859	166	17	§1894	468	53
1860	173	25	1895	483	51
1861	163	13	1896	484	58
1862	177	17	1897	525	86
1863	174	15	1898	569	83
1864	162	5	1899	622	70
1865	146	21	1900	657	124
1866	137	10	1901	704	84
1867	148	12	1902	751	103
1868	195	16	1903	763	111
†1869	217	2	1904	890	120
1870	207	14	1905	975	133
1871	181	19	1906	1002	158
1872	172	24	‖1907	730	130
1873	185	21	1908	697	112
1874	201	20	1909	771	132
1875	246	16	1910	767	120
1876	336	33	1911	813	91
1877	354	27	1912	831	118
1878	407	51	1913	813	117
1879	426	54	1914	855	131
1880	405	58	1915	924	126
1881	372	46	1916	971	135
1882	346	44	1917	989	139
1883	322	42			

TECHNICAL HIGH SCHOOL.

1899	18		1909	928	65
1900	61		1910	1,051	88
1901	77	2	1911	669	60
1902	90	3	1912	791	52
1903	120	16	1913	857	78
1904	162	18	1914	956	93
1905	180	13	1915	,031	115
1906	223	14	1916	1,068	101
‖1907	681	66	1917	1,002	98
1908	787	78			

HIGH SCHOOL OF COMMERCE.

1911	480	40	1915	841	89
1912	547	69	1916	1,047	124
1913	579	68	1917	1,206	140
1914	688	81			

*Previous to this date there were no graduating exercises.

†The course was changed this year from three to four years.

‡This was the first year that any pupils were graduated in the two years' Business Course.

§The Business Course was abolished after 1894.

‖The Commercial Department was transferred from Central High to Technical High in September, 1906.

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EXPENDITURES, SCHOOL POPULATION, AND ENROLLMENT.

From the Organization of the City in 1852.

YEAR.	Current Expenses.	Repairs and Alterations.	New Buildings.	School Census.	Enrollment.	Aver. No. Belonging
1852	$6,558 89	.....	.....	2,188	2,270	1,549
1853	13,257 81	.....	.....	2,253	2,273	1,642
1854	15,049 89	.....	.....	2,449	2,561	1,691
1855	16,451 22	.....	.....	2,641	2,409	1,769
1856	17,501 03	.....	.....	2,606	2,441	1,815
1857	18,727 67	$4,146 81	$6,403 47	2,525	2,459	1,824
1858	18,494 40	3,144 54	671 00	2,675	2,569	1,862
1859	18,315 77	2,939 82	1,553 16	2,505	2,546	1,855
1860	18,115 04	3,532 04	.....	2,472	2,594	1,934
1861	17,961 30	2,956 24	.....	2,688	2,752	1,959
1862	19,358 06	2,601 92	.....	3,090	3,027	2,133
1863	22,361 56	939 55	.....	3,341	3,808	2,342
1864	29,941 54	5,662 30	10,645 00	3,709	3,753	2,298
1865	37,242 93	5,516 10	53,969 78	3,713	3,822	2,490
1866	48,542 28	5,728 90	59,062 72	3,846	3,675	3,187
1867	54,423 56	3,718 32	41,267 84	4,225	3,760	3,266
1868	66,544 60	7,529 04	62,270 59	4,141	4,029	3,304
1869	68,524 83	7,778 57	34,285 49	4,156	4,617	3,509
1870	73,636 97	4,027 70	12,444 57	4,232	4,679	3,822
1871	79,489 26	4,096 28	28,490 00	4,167	4,901	3,717
1872	92,286 88	5,068 27	71,202 63	4,331	4,853	3,674
1873	96,389 77	16,760 80	53,095 82	4,399	5,238	3,900
1874	110,066 43	16,545 76	69,979 01	4,712	5,448	4,071
1875	115,788 04	21,958 95	17,098 73	5,668	5,743	4,296
1876	106,949 96	5,221 48	.....	5,408	5,890	4,481
1877	89,489 74	2,938 91	.....	5,375	5,877	4,515
1878	83,087 62	1,708 02	.....	5,379	5,625	4,398
1879	81,780 65	2,528 04	.....	5,524	5,636	4,475
1880	83,053 74	7,497 14	1,169 69	5,865	5,834	4,538
1881	88,267 73	9,240 86	.....	6,285	5,981	4,667
1882	92,081 29	9,088 23	.....	6,452	6,054	4,727
1883	98,634 26	10,672 68	17,228 99	6,566	6,070	4,661
1884	107,523 95	10,159 73	7,664 96	6,583	5,520	4,327
1885	111,351 90	7,490 23	1,626 17	6,330	5,665	4,517
1886	109,990 53	7,021 26	.....	6,472	5,813	4,648
1887	115,749 65	9,399 94	19,053 56	6,516	5,841	4,643
1888	124,739 06	9,348 20	30,712 40	6,416	5,922	4,647
1889	134,938 12	9,314 65	39,072 96	6,935	6,165	4,962
1890	146,488 62	16,206 53	48,943 67	7,054	6,455	5,180
1891	157,644 68	17,630 70	76,052 19	7,134	7,214	5,128
1892	163,570 40	10,447 98	13,829 18	7,318	7,805	5,585
1893	172,298 48	11,549 10	26,314 01	7,716	8,357	5,799
1894	184,592 41	10,995 75	46,562 87	8,002	8,553	6,340
1895	198,620 20	13,647 77	26,758 82	8,041	8,962	6,661
1896	219,531 84	8,911 17	43,878 11	8,307	9,670	7,074
1897	239,679 72	16,095 08	238,196 30	8,814	9,494	7,869
1898	265,158 05	38,881 39	363,249 04	9,202	10,044	8,260
1899	302,854 35	12,706 09	71,783 82	9,738	10,786	9,072
1900	321,804 66	11,437 20	81,698 41	10,251	11,261	9,300
1901	339,677 59	24,030 85	94,340 94	10,405	11,574	9,612
1902	351,999 63	13,167 60	96,268 67	10,899	12,162	10,206
1903	359,317 47	15,438 28	100,385 33	11,490	12,542	10,290
1904	399,399 63	17,847 82	87,274 88	11,738	12,842	10,818
1905	400,821 51	18,216 94	256,946 05	*13,059	13,161	11,183
1906	424,437 43	20,671 47	149,771 35	*13,359	13,601	11,372
1907	†373,330 38	†21,552 80	†122,727 70	*13,786	13,796	11,516
1908	485,064 25	25,613 77	139,180 18	*14,091	14,451	12,378
1909	509,693 30	26,425 33	46,449 47	*14,335	14,968	12,808
1910	546,894 49	29,136 91	43,141 00	*14,659	15,576	13,094
1911	599,246 97	23,458 83	88,861 00	*15,221	16,074	13,550
1912	640,527 83	35,716 10	42,087 33	*15,915	16,584	13,847
1913	696,066 08	37,072 32	235,401 52	*16,855	17,492	14,563
1914	‡769,435 20	‡41,002 78	‡891,761 02	*17,480	18,696	15,935
1915	856,279 15	36,979 03	243,441 01	*18,129	19,329	16,632
1916	921,230 24	65,635 85	163,463 96	.....	20,197	17,159
1917	1,038,136 10	57,363 18	362,255 98	*20,018	20,975	17,986

* From five to sixteen years of age.
† Expenditures are for 11 months.
‡ Expenditures are for 13 months, except for teachers' salaries, which are for one year.

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TABLE GIVING A BRIEF DESCRIPTION OF SCHOOL PROPERTY.

BUILDINGS.	No. of Regular Schoolrooms.	No. of Portable Schoolrooms.	No. of Desks and Seats.	No. of Kindergartens.	No. of Recitation Rooms.	Special Rooms.					Assembly Halls.	Gymnasiums.	Wood or Brick.	No. of Stories.	Condition.	Date of Occupation.	Heating Apparatus.	Area Lots. (Square Feet.)
						Manual Training or Shop.	Drawing.	Cooking.	Sewing.	Laboratories.								
Central High	17	..	862	..	13	..	2	1	1	6	2	1	B	3	Good	1898	Steam	79,874
High School of Commerce	48	..	1,697	..	4	2	2	2	3	5	1	2	B	3	New	1915	Steam	129,480
Technical High	18	..	812	..	..	12	4	1	2	..	1	1	B	3	Good	1906	H. W.	103,201
Vocational	..	..	....	..	1	5	..	..	..	..	1	..	B	2	Good	1891	H. A.	14,013
Acushnet Avenue	12	..	482	1	1	1	..	..	..	..	..	..	B	2	Good	1896	Steam	33,680
Alden Street	4	..	159	..	..	..	..	..	..	..	..	..	B	2	Good	1890	Steam	19,765
Armory Street	20	1	875	1	..	1	..	1	..	..	..	..	B	2	Good	1901	Steam	56,700
Barrows	9	..	378	..	1	1	..	..	..	..	1	..	B	3	Good	1868	Steam	37,498
Boston Road	4	..	157	..	..	..	..	..	..	..	..	..	W	2	Good	1899	H. A.	22,500
Brightwood	10	2	489	1	1	..	..	..	..	..	..	..	B	2	Good	1899	Steam	87,120
Buckingham	25	..	1,066	..	5	3	2	1	1	..	1	1	B	2	Good	1891	H. A.	94,570
Carew Street	14	..	554	..	..	..	..	..	1	..	..	..	B	2	Good	1894	H. A.	35,911
*Carlisle	1	..	....	..	..	..	..	..	..	..	..	..	B	2	....	....	Stove	17,192
Central Street	18	..	677	1	1	1	..	1	..	..	..	..	B	3	Good	1871	Steam	55,460
Charles Street	4	..	182	..	..	..	..	..	..	..	..	..	B	2	Good	1890	Steam	9,856
Chestnut Street	40	..	1,771	..	..	6	2	3	2	..	..	..	B	3	Good	1903	Steam	138,794
Dry Bridge	1	1	69	..	..	..	..	..	..	..	..	..	W	1	Good	1881	Stove	11,530
Eastern Avenue	7	..	279	1	..	..	..	..	..	..	..	..	B	2	Good	1899	H. A.	27,560
East Main Street, I. O.	4	..	148	1	..	..	..	..	..	..	..	..	W	2	Good	1898	H. A.	30,122
East Union Street	7	..	299	1	..	..	..	..	..	..	..	..	B	2	Good	1876	Steam	24,298
Five Mile Pond	1	..	32	..	..	..	..	..	..	..	..	..	B	2	Good	....	Stove	18,887
Forest Park	19	3	887	..	1	4	2	1	2	1	1	..	B	3	Good	1899	Steam	120,118
Forest Park Portable	..	2	82	..	..	..	..	..	..	..	..	..	W	1	New	1916	Stove	87,120
Glenwood	4	..	77	..	..	..	..	..	..	..	..	..	B	2	Good	1903	Steam	43,656
Homer Street	9	2	450	1	..	..	..	..	..	..	..	..	B	2	Good	1898	Steam	53,469
Hooker	14	..	593	1	..	1	..	..	..	..	..	..	B	3	Good	1866	Steam	33,407
Hooker (New)	..	..	....	..	..	..	..	..	..	..	..	..	...	...	....	....	....	55,582
Howard Street	24	..	951	1	..	1	..	1	1	..	1	..	B	2	Good	1906	Steam	71,210
Jefferson Avenue	11	..	463	1	..	..	..	..	.	..	..	..	B	2	Good	1889	Steam	20,003
Kensington Avenue	16	..	650	1	..	..	..	..	..	..	..	..	B	2	Good	1909	Steam	110,320
Lincoln School	17	..	712	..	..	1	..	..	..	..	..	..	B	2	Good	1910	Steam	30,713
Myrtle Street, I. O.	18	..	742	1	2	1	..	1	1	..	1	1	B	3	Good	1868	Steam	54,639
Open-Air	..	1	40	..	..	..	..	..	..	..	..	..	W	1	Good	1911	Steam	....
Rushville	..	2	69	..	..	..	..	..	..	..	..	..	W	1	New	1916	Stove	87,120
School Street	4	..	152	..	1	..	..	..	..	..	..	..	B	2	Good	1892	Steam	86,156
Sixteen Acres	2	..	48	..	..	..	..	..	..	..	..	..	B	2	Good	....	Stove	15,086
State Street	18	.	600	..	2	2	1	1	1	..	1	..	B	3	Good	1874	Steam	30,992
Strickland	6	..	255	..	..	..	..	..	..	..	..	..	B	2	Good	1884	H. A.	15,753
Sumner Avenue	10	..	402	1	1	..	..	..	..	..	1	..	B	2	Good	1912	Steam	98,000
Tapley	15	..	644	1	1	..	..	..	..	..	1	..	B	2	Good	1888	Steam	92,626
*Wachogue	1	..	40	..	..	..	..	..	..	..	..	..	W	1	Fair	....	Stove	8,275
White Street	10	..	439	1	..	..	..	..	..	..	..	..	B	2	Good	1905	Steam	100,000
William Street	10	..	404	1	..	..	..	..	..	..	..	..	B	2	Good	1901	Steam	35,602
Worthington Street	13	..	518	1	..	..	..	..	..	..	..	..	B	3	Good	1869	Steam	30,756
Storehouse Emery St.	..	..	....	..	..	..	..	..	..	..	..	..	B	2	Good	1913	Steam	6,808
Old office, Vernon St.	..	..	....	..	..	..	..	..	..	..	..	..	W	2	Poor	....	Steam	6,872
	485	14	20,206	18	35	42	15	14	15	12	13	6	..	..	....	....	.....	....

* Unused.

Under Heating Apparatus, H. A.=Hot Air.
" " " H. W.=Hot Water.

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SPRINGFIELD PUBLIC SCHOOLS

RATES OF TUITION FOR NON-RESIDENT PUPILS.

DAY SCHOOLS.	Fall Term (16 weeks)	Winter Term (8 weeks)	Spring Term (8 weeks)	Summer Term (8 weeks)	Year
Senior High,	48	24	24	24	120
Vocational,	48	24	24	24	120
Junior High,	32	16	16	16	80
Grades V and VI,	20	10	10	10	50
Kindergarten and Grades I-IV,	12	6	6	6	30

EVENING SCHOOLS.	FOR THE SEASON.
High,	$15.00
Elementary,	$15.00
Trades,	$10 and $15
Vocational,	50c per lesson

Tuition must be paid in advance.

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LENGTH OF SERVICE OF MEMBERS

OF THE

SPRINGFIELD SCHOOL COMMITTEE

1852—1917

		Total Years of Service.
Josiah Hooker	1852–1853 (Chairman) 1856–1867 (Chairman) (Also a member in 1851 and Chairman in 1848, before city was chartered)	16
C. A. Winchester	1852–1854 (Also a member in 1851)	4
A. S. McClean	1852–1854 (Also a member in 1851)	4
George Merriam	1852	1
William P. Bagg	1852	1
Marcellus Pinney	1852 1855 1861–1863 1867–1869	8
Samuel Walker	1852	1
Frederick Holt	1852	1
Alfred Lambert	1853	1
V. L. Owen	1853 1856–1859	5
Jabez C. Terry	1853	1
Henry Pomeroy	1853–1854	2
Harvey E. Moseley	1853 and 1855	2
Horace S. Taylor	1854	1
Samuel McNary	1854 (Also a member in 1847 and 1848)	3
George O. Lombard	1854	1
Frederick Holt	1854	1
Chester R. Chaffee	1855	1
John E. Taylor	1855 (Chairman) 1871–1882 (1874–1882 Chairman)	13
Henry R. Vaille	1855	1
Randolph E. Ladd	1855	1

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		Total Years of Service.
Charles P. Bragdon	1855	1
Isaac P. Dickinson	1855	1
William L. Smith	1856 (Also a member in 1849 and 1850	3
Samuel Osgood	1856–1862 (Also a member in 1849 and 1850)	9
John B. Kirkham	1856	1
Edwin L. Hall	1856–1860	5
John Kimberly	1856–1860	5
Samuel Mills, Jr	1856	1
William G. Breck	1857–1858	2
James E. McIntire	1857–1864	8
Abram Paige	1857–1858	2
E. D. Murphy	1857–1858	2
R. B. Hildreth	1859–1864	6
Charles Marsh	1859	1
Marcus W. Fay	1859–1863	5
Osmond Tiffany	1860–1861	2
Gershom W. Harrison	1860–1862	3
Robert Crossett	1861–1862	2
Francis Tiffany	1862–1864	3
S. G. Buckingham	1863–1877 (1872–1873 Chairman)	15
Horace Kibbe	1863–1870	8
Obadiah Frary	1863	1
J. G. Chase	1864 1876–1881	7
William W. Gardner	1864–1866 1870–1875 1882–1884	12
A. J. Plumer	1864–1865	2
Josiah Marvin	1865–1867	3
William Rice	1865–1882 (1869–1871 Chairman)	18
John L. King	1865–1872	8
John B. Stebbins	1865–1869	5
Hiram Warner	1866–1869	4
Horace J. Chapin	1868	1
J. M. Stebbins	1868–1873	6
Samuel W. Porter	1869–1877	9
Mrs. Randolph E. Ladd	1870	1

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		Total Years of Service.
Charles J. Goodwin	1870–1872	
	1874–1890	20
S. D. Burbank	1871–1872	2
T. M. Brown	1873–1880	8
Stephen Harris	1875	1
A. D. Mayo	1874–1879	5
John Fallon	1874–1875	2
John Giles	1876–1878	3
Sanford Lawton, Jr	1878–1880	3
L. H. Cone	1878–1880	3
A. M. Copeland	1879–1881	3
Joseph C. Pynchon	1880–1882	3
John R. Smith	1881–1886	6
Cornelius S. Hurlbut	1881–1889	9
O. M. Baker	1881–1886	
	(1883–1886 Vice-Chairman)	6
James D. Safford	1882–1889	8
Avery J. Smith	1883–1885	3
George H. Bleloch	1883–1891	
	(1887–1889 Vice-Chairman)	9
Milton Bradley	1883–1885	3
Rawson Hathaway	1885–1890	6
James L. Johnson	1886–1891	6
Edward H. Phelps	1886–1888	3
Adelaide A. Calkins	1887–1898	12
Ellen B. Merriam	1887–1892	6
Harlan P. Stone	1889–1894	
	(1890–1894 Vice-Chairman)	6
Clark W. Bryan	1890–1898	9
William C. Simons	1890–1899	
	(1895–1899 Vice-Chairman)	10
Edward O. Robinson	1891–1892	2
Henry K. Wight	1891–1896	6
Elisha B. Maynard	1892–1897	6
	(1887–1888 Mayor and Chairman)	2
Samuel D. Brooks	1892–1894	3
Rachel B. Jacobs	1893–1904	12
William O. Day	1893–1896	3
James G. Dunning	1895–1897	
	1900–1902	6

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		Total Years of Service.
Adelaide H. Trask	1895–1897 1899–1904	9
Frank N. Seerley	1897–1911	15
Charles Jacobus	1897–1899	3
Oscar B. Ireland	1898–1903 (1900–1903 Vice-Chairman)	6
Willard F. Tripp	1898	1
George D. Weston	1898–1909	12
William F. Ray	1899	1
John A. Hall	1899–1901	3
Franklin A. Latimer	1900 1915–	1
Frederick E. Hopkins	1900–1908	9
Frank H. Goldthwaite Frederick H. Stebbins	(Mr. Goldthwaite resigned in June, 1901, his place being taken by Mr. Stebbins)	1
Edward H. Wilkinson	1902–1912 (1904–1912 Vice-Chairman)	11
James B. Carroll	1902–1904	3
Francis M. Bennitt	1903–1914 (1913–1914 Vice-Chairman)	12
James A. Bill, Jr	1904–1906	3
James S. Judd	1905–1907	3
Leona M. Peirce	1905–1916	12
Mrs. Newton Morgan	1905–1913	9
Wayland V. James	1907– (1917 Vice-Chairman)	
William M. Kimball	1908–1910	3
Frederick Harris	1909–1917 (1915 Vice-Chairman)	9
Irving S. Pulcifer	1910–1912	3
Ralph B. Ober	1911–	
George H. Howard	1912–	
Newton M. Hall	1913– (1916 Vice-Chairman)	
Henry L. Hirsch	1913–	
Florence Clark	1914–	
Edward M. Porter	1917–	

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The Mayor has been Chairman of the School Committee, ex officio, since 1883:—

H. M. Phillips	1883–1885
Edwin D. Metcalf	1886
Elisha B. Maynard	1887–1888
Edward S. Bradford	1889–1891
Lawson Sibley	1892
Edmund P. Kendrick	1893–1894
Charles L. Long	1895
Newrie D. Winter	1896
Henry S. Dickinson	1897–1898
Dwight O. Gilmore	1899
William P. Hayes	1900–1901
Ralph W. Ellis	1902
Everett E. Stone	1903–1904
Francke W. Dickinson	1905–1906
William E. Sanderson	1907–1909
Edward H. Lathrop	1910–1912
John A. Denison	1913–1914
Frank E. Stacy	1915–

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REPORT OF

SCHOOLHOUSE AGENT FOR 1917

SPRINGFIELD, MASS., December 28, 1917.

To His Honor, the Mayor, and the City Council.

GENTLEMEN:—In compliance with the City Ordinances, I hereby submit for your consideration the annual report of this department for the year ending December 1, 1917, including Schools, Municipal Heating Plant, Militia Rifle Range, and other property cared for by this department.

SCHOOLHOUSE PROPERTY.

ADMINISTRATION.

Salary, Schoolhouse Agent,	$2,393.56	
Clerical assistance,	2,558.00	
Office supplies,	105.54	
Advertising,	52.48	
Stamps and stamped envelopes,	58.74	
Telephones and telegrams,	4.07	
Traveling expenses and meals,	29.40	
Total expenditures for Administration,		$5,201.79

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SCHOOLHOUSE PROPERTY.—OPERATION.

SCHOOL	Care of Buildings and Grounds	Fuel	Light and Power	Lawns and Grading	Janitor Supplies and Sundry Furnishings	Totals
Acushnet Avenue,	$1,399 29	$1,084 93	$315 35	$47 70	$57 75	$2,905 02
Alden Street,	816 87	578 01	40 47	4 02	24 48	1,463 85
Armory Street,	2,109 30	2,126 84	247 66	21 37	81 54	4,586 71
Barrows,	1,335 27	469 90	228 89	29 12	30 58	2,093 76
Boston Road,	807 17	98 70	55 57	43 38	24 47	1,029 29
Brightwood,	1,558 03	1,378 29	142 19	11 65	66 75	3,156 91
Buckingham,	3,290 11	2,222 27	693 71	103 35	161 60	6,471 04
Carew Street,	1,419 08	886 89	140 77	8 12	48 06	2,502 92
Carlisle (unoccupied),	32 80	.....	.....	.....	.....	32 80
Central Street,	2,193 15	1,901 34	227 50	10 72	79 71	4,412 42
Charles Street,	831 47	400 10	2 64	2 52	5 76	1,242 49
Chestnut Street,	5,475 26	3,481 23	1,370 28	28 57	195 74	10,551 08
Dry Bridge,	457 00	187 27	.....	1 80	50 90	696 97
Eastern Avenue,	1,168 80	691 50	15 22	6 60	41 16	1,923 28
East Union Street,	1,140 87	599 30	227 62	10 12	38 17	2,016 08
Emery Street Shop,	1,317 35	461 00	142 32	.....	54 86	1,975 53
Five Mile Pond,	278 00	69 34	.....	.....	1 40	348 74
Forest Park,	2,441 50	2,129 00	549 60	38 40	120 58	5,279 08
Glenwood,	810 67	271 69	3 92	7 42	1 17	1,094 87
High (Central),	6,277 94	3,160 81	1,317 05	25 17	154 58	10,985 55
High (Commercial),	16,241 25	7,054 53	869 75	26 04	328 26	24,519 83
High (Technical),	7,608 88	4,604 22	1,591 92	28 52	478 84	14,312 38
Homer Street,	1,401 12	823 51	23 58	9 52	34 21	2,291 94
Hooker,	1,773 86	1,746 72	284 81	6 82	87 22	3,899 43
Howard Street,	2,613 45	2,640 10	848 77	48 42	167 12	6,317 86
Indian Orchard Grammar,	2,824 03	2,185 30	631 38	8 72	80 97	5,730 40
Indian Orchard Primary,	1,020 77	635 55	30 24	10 12	30 81	1,727 49
Jefferson Avenue,	1,316 77	378 80	162 50	9 77	32 33	1,900 17
Kensington,	1,649 39	741 05	287 38	21 72	99 83	2,799 37
Lincoln,	1,594 25	903 80	260 68	13 42	128 13	2,900 28
Rushville Portable,	503 00	97 14	.....	.....	10 71	610 85
School Street,	799 40	331 45	25 13	33 08	13 74	1,202 80
Sixteen Acres,	434 00	229 76	.....	16 56	26 61	706 93
State Street,	1,634 81	1,580 40	295 45	10 12	39 32	3,560 10
Strickland,	1,055 47	768 83	60 89	7 62	45 73	1,938 54
Sumner Avenue,	1,371 17	774 44	209 79	6 00	58 95	2,420 35
Tapley,	1,523 73	1,512 58	188 43	11 42	73 72	3,309 88
Vocational,	1,485 12	705 52	872 21	4 94	122 79	3,190 58
Washington Street Portable,	540 80	148 74	.....	5 34	12 17	707 05
White Street,	1,332 37	1,138 30	235 91	18 32	60 69	2,785 59
William Street,	13,40 70	869 98	319 84	3 00	68 49	2,602 01
Worthington Street,	1,586 86	1,171 34	280 44	44 99	130 18	3,213 81
Totals,	$86,811 13	$53,240 47	$13,199 86	$744 49	$3,370 08	$157,366 03
					Amount carried forward, ...	$157,366 03

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Amount brought forward,		$157,366.03
Automobiles:		
Salaries of chauffeur and helper,	$1,273.83	
Supplies and replacements,	536.57	
Repairs,	173.58	
Self-starter,	72.34	
Registration,	24.20	
		2,080.52
Boiler insurance,		2,564.21
Freight and cartage,		366.70
Total expenditures for Operation,		$162,377.46

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SCHOOLHOUSE PROPERTY.—MAINTENANCE.

SCHOOL	Alterations and Permanent Work	Electrical Work	Heating and Plumbing	Painting and Glazing	Roof Repairs	Furniture and Furnishings	Miscellaneous Labor and Materials	Totals
Acushnet Avenue,	$614 38	$259 05	$288 69	$171 70	$17 43	$87 27	$103 45	$1,541 97
Alden Street,	205 28	7 68	111 07	22 77	.....	13 33	10 27	370 40
Armory Street,	1,633 43	71 88	258 55	93 50	.....	85 44	91 00	2,228 80
Barrows,	250 50	39 60	65 62	393 28	47 84	4 00	70 09	870 93
Boston Road,	138 06	94 14	10 61	10 13	20 22	3 00	13 43	289 59
Brightwood,	115 43	170 68	18 39	41 87	34 76	50 71	125 74	557 58
Buckingham,	5,347 65	221 33	402 50	201 94	4 10	317 90	70 56	6,565 98
Carew Street,	17 03	21 46	95 56	318 38	188 59	55 70	78 30	775 02
Central Street,	201 26	73 77	338 72	142 00	71 39	17 62	18 68	863 44
374 Central Street,	31 30	7 76	79 08	16 82	.....	.....	35 31	170 27
Charles Street,	120 40	8 71	80 42	11 97	16 15	14 66	11 66	263 97
Chestnut Street,	296 59	975 00	463 01	173 08	71 95	295 51	182 14	2,457 28
Dry Bridge,	114 58	.....	25 87	11 65	.....	.....	10 65	162 75
Eastern Avenue,	12 59	40 78	114 50	54 61	.....	2 71	2 47	227 66
East Union Street,	95 73	7 15	31 26	25 75	5 33	.....	73 16	238 38
Five Mile Pond,	22 26	.....	24 25	18 93	.....	.....	.....	65 44
Forest Park,	4,322 29	268 08	823 35	486 85	26 60	456 59	169 61	6,553 37
Glenwood,	.....	11 69	16 20	3 35	.....	22 00	.....	53 24
High (Central),	297 92	459 14	331 05	279 44	346 30	195 45	133 58	2,042 88
High (Commercial),	577 38	620 39	388 45	105 52	6 45	5,726 78	9 60	7,434 57
High (Technical),	1,060 12	249 46	1,035 97	186 69	.....	114 51	171 25	2,818 00
Homer Street,	407 49	14 35	766 02	151 47	9 00	86 85	8 00	1,443 18
Hooker,	67 88	32 22	436 51	112 12	49 61	46 50	17 40	762 24
Howard Street,	355 68	198 73	416 07	575 83	33 00	20 52	126 65	1,726 48
Indian Orchard Grammar,	179 10	125 35	195 90	51 09	.....	.....	60 26	611 70
Indian Orchard Primary,	293 36	12 73	75 67	58 13	1 50	97 41	145 64	684 44
Jefferson Avenue,	50 24	15 96	72 20	224 69	36 18	11 41	30 33	441 01
Kensington,	151 09	47 93	44 38	54 45	2 70	.....	34 55	335 10
Lincoln,	1,207 32	117 80	130 67	240 64	25 85	151 33	131 56	2,005 17
Rushville Portable,	36 63	.....	12 65	1 00	.....	7 00	2 20	59 48
School Street,	53 79	4 62	42 81	39 34	9 27	9 20	18 34	177 37
Sixteen Acres,	27 72	.....	17 48	99 96	.....	.....	.....	145 11
State Street,	96 13	132 38	18 82	80 89	171 83	163 90	128 08	792 03
Strickland,	531 39	5 92	22 39	30 25	9 10	61 90	120 75	781 70
Sumner Avenue,	198 02	26 07	166 51	134 88	10 80	214 49	116 54	867 31
Tapley,	158 18	77 73	239 89	16 93	38 15	163 19	55 82	749 89
Vocational,	19 60	170 09	146 39	17 23	5 30	.....	3 05	361 66
Washington Street Portable,	33 67	.....	8 41	.....	.....	7 01	3 25	52 34
White Street,	466 21	10 98	266 75	15 36	20 55	31 00	55 86	866 71
William Street,	76 55	27 49	168 85	121 04	33 00	39 45	52 33	518 71
Worthington Street,	537 92	99 80	227 23	572 12	.....	42 41	54 23	1,533 71
Totals,	$20,422 15	$4,727 90	$8,473 67	$5,367 65	$1,312 95	$8,616 75	$2,545 79	$51,466 86
Amount carried forward,								$51,466 86

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Amount brought forward,.....		$51,466.86
Emery Street Shop and Storehouse:		
Labor and material on building,.....	$696.59	
Labor and material on equipment,.....	469.75	
New equipment,.....	25.25	
		1,191.59
Carfares,.....		165.00
Vacations and other lost time,.....		599.60
Miscellaneous tools on hand,.....		257.93
Orders outstanding,.....		3,682.20
Total expenditures for Maintenance,.....		$57,363.18

Appropriations:		
Administration,.....	$5,404.50	
Operation,.....	153,611.66	
Maintenance,.....	66,653.97	
Inventory, 1916,.....	1,404.09	
		$227,074.22
Expenditures:		
Administration,.....	$5,201.79	
Operation,.....	162,377.46	
Maintenance,.....	57,363.18	
Care of rented property,.....	206.36	
Inventory, 1917,.....	1,514.48	
		226,663.27
Balance unexpended,.....		$410.95

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MUNICIPAL HEATING PLANT.

Salaries, engineers and firemen,		$7,675.55
Coal,		8,550.51
Engine and boiler room supplies and replacements,		492.93
Electric lighting,		201.72
Laundry,		32.00
Repairing coal pocket,		268.47
Miscellaneous supplies and expenses,		83.44
Orders outstanding,		805.00
Total expenditures,		$18,109.62
Appropriations,	$18,283.96	
Expenditures,	18,109.62	
Balance unexpended,	$174.34	

MILITIA RIFLE RANGE.

Caretaker,		$312.00
Taxes and water rents,		140.29
Insurance,		30.00
Putting up and taking down targets,		77.00
Miscellaneous expenses,		8.45
Total expenditures,		$567.74
Appropriations,	$928.00	
Expenditures,	567.74	
Balance unexpended,	$360.26	

Respectfully submitted,

H. L. DORMAN,

Schoolhouse Agent.

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FIRE COMMISSIONERS.

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BOARD OF FIRE COMMISSIONERS.

	Term Expires.
WILLIAM W. TAPLEY, *Chairman*,	1st Monday in May, 1919
CHARLES B. HITCHCOCK, *Secretary*,	1st Monday in May, 1920
EDWARDS O. DAVIS,	1st Monday in May, 1921
PATRICK H. QUINN,	1st Monday in May, 1918

CHARLES A. ALLBE, Alderman, and Chairman of the Fire Department Committee of the City Council, ex officio.

BOARD OF FIRE CHIEFS.

Chief of the Department,	WILLIAM H. DAGGETT
Deputy Chief,	EVERETT A. KIMBALL
District Chief,	BURTON STEERE
District Chief,	JOHN R. GRAVES

Superintendent of Fire Alarm Telegraph Bureau, HERBERT H. BERRY

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REPORT

OF THE

BOARD OF COMMISSIONERS OF THE FIRE DEPARTMENT

SPRINGFIELD, MASS., December 22, 1917.

To His Honor, the Mayor, and Members of the City Council.

GENTLEMEN:—The twelve months ended November 30 have served the purpose of a test period, opportunely appointed, in which to try out Springfield's motorized Fire Department and we are pleased to inform you that in all respects the Department has given service fully equal to the anticipations of the members of this Commission.

The fact that the city's fire loss shows an increase over that of the preceding fiscal year is attributable wholly to an increase in the number of fires and to no shortcomings of either men or apparatus. For the former it may be stated that they have performed their duty under circumstances which, during the latter portion of the year at least, have been particularly trying and concerning the apparatus we may add that the work of every piece called into action has been performed with clocklike precision, while all of the apparatus has been maintained and operated at a minimum cost.

It so happened that motorization of the Department apparatus was completed coincident with the close of the fiscal year 1916, so that the fiscal year 1917 may go on record as the test year of Springfield's new Fire Department. While the members of this Commission share the pleasure that must be felt by residents of Springfield generally over the fact that the Department has in all respects stood well the test to which it has been subjected, we desire, with all the emphasis we may command, to warn against over-confidence. Springfield is no longer the small, easily protected city it formerly was. Within recent years it has grown at an astonishing rate. From the standpoint of fire protection the most significant feature of this growth has been the development of outlying sections. Within the total area of about forty square miles are some highly developed residential sections, remote from the business center,

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that must be adequately protected against loss by fire. It requires but little investigation to demonstrate that in this respect Springfield occupies a position unique among other New England cities of approximately the same population.

In other respects Springfield is rapidly attaining the proportions of a metropolitan center and it is futile to longer seek to evade the fact that the time is at hand when it must be protected against fire in a manner commensurate with the protection afforded other such centers. If this means additional expense it also means added security.

In so far as apparatus enters into this protection the needs of the Department are not great. There is a possibility, as pointed out in the accompanying report of the Chief of the Department, that the tractor-drawn engine now at the Oakland Street Fire Station may be condemned and we agree with him that it would be extremely unwise to postpone purchase of a modern motor pump to take its place until such time as the old engine is actually put out of service.

Thirty-nine pieces of apparatus now in the service of the Department are classified as follows:—

Hose wagons,	15
(14 combination hose and chemical; 1 spare.)	
Ladder trucks,	7
(6 aerial, 1 city service. Of these 3 are electric-driven, 3 gasoline-driven, 1 electric tractor-drawn.)	
Pumping engines,	5
(4 gasoline triple combination; 1 steam, gasoline tractor-drawn.)	
Water tower,	1
(gasoline tractor-drawn.)	
Auxiliary squad cars,	2
Chiefs' cars,	4
(Chief of Department, 1; Deputy Chief, 1; District Chiefs, 2.)	
Fire Alarm service,	2
(1 truck, 1 runabout.)	
Superintendent of Repairs (runabout),	1
Runabouts (spare),	2
Total,	39

Sixteen sleighs are reserved for use with hired horses should weather conditions ever necessitate.

The greatest need of the Department, as already stated in a recent communication to your Honorable Body, is that of additional men. We have already asked you for authority to increase the Department membership by the addition of sixty-three new men and will not weary you with a repetition of our reasons for this request. We invite, however,

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your consideration of that portion of the report of the Chief of the Department explaining in detail the steps necessary before all of these men would actually be admitted to the service as demonstrating there is no foundation in fact for the belief that the authority sought by this Commission will entail an immediate and large expenditure of money. Also we wish to emphasize the statement made by the Chief that the need of the fire whistle is just as urgent with a large as with a small force, because of the important part it plays in summoning men to fires occurring during meal hours.

The 189 men comprising the present membership of the Department are classified as follows:—

Chief,	1
Deputy Chief,	1
District Chiefs,	2
Superintendent of Fire Alarm Telegraph Bureau,	1
Assistant Superintendent of Fire Alarm Telegraph Bureau,	1
Superintendent of Repairs,	1
Captains,	21
Lieutenants,	23
Engineers of pumping engines,	5
Hose and ladder men,	123
Fire Alarm operators and linemen,	5
Callmen,	3
Bookkeeper,	1
Clerk,	1
Total,	189

In line with the policy of affording adequate protection to the outlying sections of the city we believe the growth of that section in the vicinity of the "X" warrants the erection of a fire station there in the near future. It is our purpose to give this matter further consideration and later to make it the subject of a special report. Also we have in mind the selection of lands in other outlying sections advantageously located for future use as sites for fire stations.

In this connection it may be stated that the Boston Road Fire Station, a small frame structure erected a few years ago, before the motorization of apparatus at the Winchester Square Station, has been abandoned by order of this Commission and that the portion of the city it was originally intended to protect will hereafter be covered from the Winchester Square Station until such time as it seems feasible to erect a new permanent fire station east of the New England tracks.

Over a dozen new fire alarm boxes have been added to the list during

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the year and the system has been extended with a view to affording the fullest degree of protection as the city's growth develops in the outskirts.

We are pleased to inform you that the work of remodeling the Indian Orchard Fire Station has been completed at a total expenditure of about $25,200 or $1,800 less than the amount appropriated for this work. This station is now among the best included in the Department quarters and is likely for many years to come to be well able to house such apparatus and men as will be needed for the protection of Indian Orchard.

Among the more immediate building needs of the Department are remodeling of the Oakland Street Station, as proposed in the report of this Commission for the fiscal year 1916, and repairs upon the Chestnut Street Station, which is now in very bad condition. We beg to advise that plans for the proposed remodeling of the Oakland Street Fire Station, prepared last season, are still available. The estimated cost of the work, which includes a concrete apparatus floor, new apparatus doors, and new and larger quarters for the men, is, under present-day conditions, about $20,000.

Summarized, the foregoing recommendations and others to which we invite your attention, are as follows:—

1st—That the permanent membership of the Department be increased by the addition of sixty-three men.

2d—That the use of the fire alarm signal whistle be resumed.

3d—That the Oakland Street Fire Station be remodeled to provide better accommodations for firemen and apparatus.

4th—That immediate steps be taken for repairs upon the Chestnut Street Station, the need of which we consider imperative.

5th—That the Armory Street Station be remodeled to admit of housing a ladder truck there and to provide better quarters for men and apparatus.

6th—That the present Mill Street Fire Station be sold, that land on the westerly side of Main Street at its junction with the extension of Mill Street, now or formerly held by Sarah Cohen, trustee, be purchased and a modern fire station be erected thereon.

7th—That if it be deemed inexpedient to replace the Mill Street Station with a new and better located building, the present quarters be remodeled to provide better accommodations for men and apparatus.

8th—That a new fire station, plans for construction and equipment of which together with location of site proposed, shall later be furnished by this Commission, be erected in the vicinity of the "X."

9th—That a separate building of brick or stone, to be used as a Depart-

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ment Repair Shop, be erected on land owned by the city at the rear of the Armory Street Station.

10th—That the number of District Chiefs in the service of the Department be increased by ordinance from two to four.

11th—That provision be made by ordinance for the permanent employment of a competent physician, a resident of this city, whose duty it shall be to respond to fire alarms for the purpose of giving emergency aid to firemen or other persons injured or overcome at fires.

12th—That provision also be made by ordinance for the location of a fire alarm signal box upon either the exterior or interior walls of each building in the city used for school purposes.

While the members of this Commission keenly realize the necessity existing in this time of National stress for the exercise of practical economy in all undertakings, public or private, we feel it to be our duty in matters relating to the maintenance and operation of this Department, to first ascertain that such economies as are suggested are in reality practical economies. This we have done in the preparation of this report and the foregoing recommendations are offered in the firm belief that they conform to this policy of practical economy.

Changes in the personnel of the Department during the past fiscal year include the retirement of a few of the veteran members whose faithful service extends over a long period of years. Prominent among these are Mr. Samuel L. Wheeler, former Superintendent of the Fire Alarm Telegraph Bureau, who was retired on pension December 1, 1917, after having been over thirty years in the service of the Department, and Mr. Charles B. Burt, formerly engineer of Engine Company, No. 4, whose retirement on pension after serving the Department nearly half a century became effective November 12. We take this occasion to reaffirm the appreciation and thanks of this Commission, already expressed privately to these men.

Our report would by no means be complete were we to fail of inviting your attention to the spirit of patriotism that has actuated all members of the Department. This has been evidenced in the subscription of nearly $25,000 to the Liberty Loans, $15,000 in individual subscriptions and $10,000 by the Firemen's Mutual Relief Association; in the payment of $174 in membership fees during the recent Red Cross drive, in addition to a substantial sum previously subscribed to the fund of that organization; in the subscription of over $200 to the Red Triangle fund, and in the making of many knit articles for the United States troops. Nearly 1,500 woolen pieces, including sweaters, toques, and stockings, have

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already been knit by the firemen and the work is still progressing. Consider that in addition to this excellent showing four permanent members are now on leave of absence in the military service of the country and we believe you will share with us pride in the knowledge that the patriotism of Springfield's Fire Department is no whit less than its efficiency.

Respectfully submitted,

WILLIAM W. TAPLEY,
CHARLES B. HITCHCOCK,
PATRICK H. QUINN,
EDWARDS O. DAVIS,
HENRY MARTENS,
Board of Fire Commissioners.

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REPORT

OF THE

CHIEF OF THE DEPARTMENT

SPRINGFIELD, MASS., December 19, 1917.

To the Honorable Board of Commissioners of the Fire Department.

GENTLEMEN:—The fiscal year 1917 was notable in this Department principally because of the great amount of work done with a comparatively small force. The total of alarms answered, as set forth in one of the statistical tables forming part of this report, was 1,044, the largest in the history of the Department, and included a large number received from remote portions of the forty square miles included in the area covered by the city.

In addition to this actual fire service fire prevention duty done by the Department members includes nearly 17,000 inspections of buildings and premises to guard against the increase of fire hazards. The number is in excess of the inspections of the fiscal year 1916 by nearly two thousand. These alarms and inspections, both breaking all previous records, have been attended to by a force of permanent men which, measured either by the standard of previous years or by similar work done by fire departments in other cities, is woefully out of proportion. Add to this the fact that for several weeks during the latter part of the fiscal year the Department was, as it now is, without the steam fire alarm whistle to insure the presence of members then at meals, at fires to which their companies were called during meal hours, and I believe you gentlemen will agree with me that the members of the Department are to be congratulated upon having done good work, especially when it is taken into consideration that despite an increase of one hundred and thirty-three alarms over the number responded to during the fiscal year 1916 the total fire loss for the fiscal year 1917 shows an increase of only $3,849.64 over that of 1916.

You are familiar with the principal needs of the Department, additional men and the reinstatement of the steam fire whistle. In connection with the need of more men I wish to call your attention to the fact that it would be impossible, under present conditions, to immediately

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place at work the sixty-three men needed. The best that could be done under authority from the City Council would be to acquire the services of these men gradually. Reasons for this are threefold: lack of men likely to join the Department, the State law requiring that all appointments of firemen be made only with the approval of the Civil Service Commission, and the absolute necessity that men entering our fire service be thoroughly trained in the Department drill school. I am of the opinion that under these conditions it would be fully one year, if not two, before the full quota could be attained. Thus it will be seen that the authority of the City Council necessary to increase the permanent membership of the Department can involve no immediate or proportionately large expenditure of money.

I take pleasure in informing you that no extensive repairs have been necessary upon any of the apparatus during the year and that such minor repairs as have been necessary have been done by the Department and not in outside shops. We now have the nucleus of a good repair shop, but a modern, thoroughly equipped, well lighted, fully manned, repair shop, located in a separate building, constitutes one of the most pressing needs of the Department. This repair work has now outgrown the quarters in which it is conducted in the North Street Fire Station and a change to larger quarters is imperative. Such a repair shop as is needed should be a separate building of brick or concrete, about 40 x 80 feet, well lighted by windows and skylights. It is probable that a building of this kind will cost in the vicinity of $15,000, but we are fortunate in that it will not be necessary to purchase land on which to erect it as we have an admirable site available on land owned by the City at the rear of the Armory Street Fire Station. I respectfully recommend that a repair shop of the kind I have suggested be erected on this location at the earliest possible date.

Again it is my duty to remind you of the condition of Engine No. 3. As stated in my report for the fiscal year 1916 this piece of tractor-drawn apparatus, now one of the oldest in the service, is liable to be condemned at any time by State inspectors. The cost of repairing it would be approximately $3,000. It seems to me it would be better economy to anticipate such an expenditure by the purchase of an up-to-date motor pumping engine at an approximate cost of $8,000 and I so recommend, at the same time reminding you of the fact that if purchase of such a piece of apparatus be deferred until the actual condemnation of the old engine conditions are likely to be such among manufacturers that the section of the city now protected by Engine 3 would be either wholly without such pro-

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tection as an engine affords or very inadequately protected in this respect during a long period before a new pump could be received and placed in service.

Since there seems little likelihood that the proposed extension of Taylor Street will be put into effect, bringing about abandonment of the Chestnut Street Fire Station, repairs upon that building, which for several years have been postponed as contingent upon that possibility, must this year be undertaken at a probable cost of $6,000 and I recommend that provision for this work be made.

The necessity for improvements at the Oakland Street Station, to which attention was called in my report upon the fiscal year 1916, has been increased by delay and I again recommend that steps to complete this work be taken at once. The probable cost is $20,000.

In addition I renew my recommendations for alterations upon the Armory Street Station and the present Mill Street Station, provided no new station be erected to take the place of the latter.

Also I renew my recommendation relative to the retirement of members of the Fire Department on pension, as follows:—

That, as a means of improving the personnel of the Department, steps be taken to secure a revision of the ordinance governing the Fire Department, so as to enable the retirement of members on pension at the age of sixty instead of sixty-five years, as at present, and to make such retirement possible either on such members' personal petition or on that of the Chief of the Department, provided, however, that should the latter course be adopted it shall be only following a majority vote by the Board of Fire Chiefs, authorizing such action.

The record breaking number of alarms responded to by the Department during the fiscal year 1917 included 287 bell alarms, 603 telephone, 127 still, 12 thermostat, and 15 A.D.T.; total, 1,044. There has been a gratifying decrease in false alarms, the total for the year being sixty-four, twenty-three less than were received during the fiscal year 1916. Also there have been less needless alarms, the total dropping from sixty-nine in 1916 to sixty-one received during the fiscal year 1917. The fire loss during the fiscal year just closed was $181,796.03, divided as follows: covered by insurance, $168,040.57; uninsured, $13,755.46. Tabulated statistics relative to alarms, valuation, insurance, loss, causes of fires and alarms, inventory of land, buildings, equipment, etc., forming parts of this report are presented herewith.

Figures from the office of the City Auditor show the total of charges

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against this Department for maintenance and operation during the fiscal year 1917 to be $288,222.91. This is $1,834.58 less than the amount appropriated for these purposes, which was $290,057.49.

Respectfully submitted,

W. H. DAGGETT,
Chief.

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REPORT

OF THE

SUPERINTENDENT OF THE FIRE ALARM TELEGRAPH BUREAU

SPRINGFIELD, MASS., December 15, 1917.

To the Honorable Board of Fire Commissioners.

GENTLEMEN:—This year has seen the remodeling of thirty-two of the old type fire signal boxes to the new successive type Peerless as well as the installation of eight new Peerless boxes in various parts of the city.

All overhead wires have been removed in the prescribed district and placed underground, five thousand feet of cable being employed to accomplish the above.

The whistle on the Fire Alarm system at the electric light station was discontinued on October 23, at the request of the Electric Light Company.

At Indian Orchard the system, which operates independent of the City's Central Office system, comprises 17 boxes, tower striker, battery, switchboard, and engine house equipment. The battery of fifty-six cells was renewed this last Fall and changes made to the switchboard. The signal boxes were retimed and adjusted.

There remain now over eighty of the old type boxes to be remodeled. We trust the policy of changing from the old to the new successive type will be followed next year and appropriation made to change at least thirty boxes. Six new boxes are needed in the city and at least two new boxes at Indian Orchard.

Other than as stated above the Fire Alarm system is in first-class condition.

Respectfully submitted,

HERBERT H. BERRY,

Superintendent.

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STATEMENT OF

ALARMS, VALUATION, INSURANCE AND LOSS

Involved in Fires of the Fiscal Year Ended Nov. 30, 1917.

	Alarms						Value	Insurance	Loss				
	Bell	Telephone	Still	Thermostat	A.D.T.	Total			Insured	Uninsured	Total	In Building Where Fire Originated	By Exposure
Dec.	29	27	9	3	1	69	$243,150.00	$185,900.00	$11,126.15	$1,095.00	$12,221.15	$12,221.15	
Jan.	22	32	9	1	1	65	230,055.00	192,380.15	8,899.04	265.00	9,164.04	9,164.04	
Feb.	25	34	7	1		67	395,550.00	327,900.00	37,517.52	634.00	38,151.52	38,021.52	$130.00
March	19	33	6	1	1	60	521,300.00	431,669.94	16,511.16	4,040.00	20,551.16	20,524.16	27.00
April	47	124	28	1	1	201	939,058.00	692,643.00	27,796.74	274.25	28,070.99	27,971.99	99.00
May	24	76	11	3	2	116	973,995.87	892,235.50	20,706.60	2,318.67	23,025.27	22,312.77	712.50
June	14	23	5		2	44	355,400.00	297,800.00	4,756.18	1,127.00	5,883.18	5,883.18	
July	18	50	8		1	77	358,315.00	294,175.00	3,486.03	1,278.00	4,764.03	4,764.03	
Aug.	16	49	8		3	76	100,050.00	84,882.50	9,368.35	680.00	10,048.35	9,975.35	73.00
Sept.	14	26	6		1	47	157,020.00	145,000.00	8,959.38	108.00	9,067.38	9,067.38	
Oct.	30	39	12	1	2	84	192,200.00	162,335.00	9,916.60	193.00	10,109.60	10,094.60	15.00
Nov.	29	90	18	1		138	412,657.87	312,200.00	8,996.82	1,742 54	10,739.36	10,169.93	569.43
1917	287	603	127	12	15	1044	$4,878,751.74	$4,019,121.09	$168,040.57	$13,755.46	$181,796.03	$180,170.10	$1,625.93
1916	308	465	116	9	13	911	$10,204,850.60	$8,821,015.14	$170,646.47	$7,299.92	$177,946.39	$175,272.33	$2,674.06
1915	339	467	113	5	14	938	5,593,339.60	4,704,693.27	198,148.00	9,358 20	207,506 20	206,753 62	752.58
1914	338	485	153	11	6	993	6,304,701.85	5,598,198.09	308,561.01	20,103.93	328,664.94	320,552.82	8,112.12

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CLASSIFICATION OF LOSS

INVOLVED IN FIRES OF THE FISCAL YEAR ENDED NOV. 30, 1917.

	*$10 or Less.	Between $10 and $50.	Between $50 and $100.	Between $100 and $1,000.	Between $1,000 and $5,000.	Between $5,000 and $10,000.	Between $10,000 and $20,000.	Between $20,000 and $30,000.	Total Alarms
Dec.	43	7	5	11	3	..	..	..	69
Jan.	38	7	7	12	1	..	..	..	65
Feb.	43	5	3	9	6	..	..	1	67
March	35	3	5	10	6	1	..	..	60
April	174	7	3	10	5	2	..	..	201
May	94	8	2	8	3	..	1	..	116
June	36	2	..	3	3	..	..	..	44
July	53	10	5	8	1	..	..	..	77
Aug.	64	5	3	2	1	1	..	..	76
Sept.	38	1	3	4	..	1	..	..	47
Oct.	64	6	3	8	3	..	..	..	84
Nov.	111	6	4	15	2	..	..	..	138
Total	793	67	43	100	34	5	1	1	1,044
1916	667	48	42	110	40	2	2	..	911

*Includes false and needless alarms answered.

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INVENTORY OF THE FIRE DEPARTMENT.

DECEMBER 1, 1917.

	Land.	Buildings.	Equipment.	Total.
Armory street,	$1,200.00	$16,000.00	$13,436.00	$30,636.00
Boston road,		200.00		200.00
Chestnut street,	10,000.00	14,500.00	12,700.00	37,200.00
Court street,	35,000.00	101,500.00	46,600.00	183,100.00
Indian Orchard,	1,200.00	30,000.00	17,750.00	34,950.00
Margaret street,	2,000.00	25,500.00	6,000.00	33,500.00
Mill street,	2,000.00	16,500.00	23,150.00	41,650.00
Mill River lane,	300.00	2,000.00	1,300.00	3,600.00
North street,	4,000.00	58,000.00	15,650.00	77,650.00
North Main street,	3,900.00	30,000.00	18,500.00	52,400.00
Oakland street,	2,000.00	11,000.00	22,500.00	35,500.00
Pine street,	2,500.00	35,000.00	18,000.00	55,500.00
Plainfield street,	1,200.00	10,500.00	5,814.00	17,514.00
Walnut street,	3,500.00	32,500.00	20,250.00	56,250.00
Winchester Square,	7,000.00	40,000.00	27,750.00	74,750.00
Fire Alarm service,			126,000.00	126,000.00
	$75,800.00	$423,200.00	$375,400.00	$860,400.00

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COMPARATIVE STATEMENT OF LOSS.

*Year	Alarms	Property Loss	Per Capita Loss
1871	21	$199,317.00	$7.46
1872	22	106,425.00	3.99
1873	48	191,107.00	7.16
1874	38	285,822.02	10.70
1875	57	476,961.45	15.36
1876	53	120,824.00	3.89
1877	32	74,071.00	2.39
1878	39	49,552.00	1.60
1879	33	36,706.70	1.18
1880	27	8,661.35	.26
1881	61	92,352.82	2.77
1882	73	60,232.06	1.81
1883	46	34,969.11	1.05
1884	54	30,755.34	.92
1885	48	39,241.91	1.04
1886	61	33,584.00	.81
1887	86	64,930.29	1.73
1888	79	177,577.19	4.73
1889	79	52,085.19	1.39
1890	92	33,864.99	.77
1891	141	201,126.00	4.55
1892	140	125,243.36	2.83
1893	147	397,531.03	9.00
1894	125	57,732.41	1.31
1895	128	43,311.74	.84
1896	141	57,206.60	1.11
1897	157	55,460.89	1.08
1898	171	235,981.79	4.58
1899	213	94,694.02	1.84
1900	222	62,157.70	1.00
1901	236	96,409.25	1.55
1902	248	149,931.33	2.42
1903	311	30,316.69	.49
1904	385	68,332.86	1.10
1905	424	208,451.58	2.83
1906	403	105,771.28	1.39
1907	498	535,549.74	7.05
1908	530	88,690.38	1.17
1909	675	75,701.81	1.00
1910	710	133,329.47	1.50
1911	729	397,714.08	4.47
1912	829	166,210.66	1.87
1913	1,033	264,165.72	2.97
1914	993	328,664.94	3.70
1915	938	207,506.20	2.02
1916	911	177,946.39	1.73
1917	1,044	181,796.03	1.51

*Fiscal year; December 1 to November 30 inclusive.

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ALARMS ANSWERED

Hose Co. No. 1	128
Hose Co. No. 2	198
Hose Co. No. 6	91
Hose Co. No. 7	180
Hose Co. No. 10	185
Hose Co. No. 11	54
Hose Co. No. 12	100
Hose Co. No. 13	92
Truck Co. No. 1	115
Truck Co. No. 3	60
Truck Co. No. 6	72
Truck Co. No. 8	82
Truck Co. No. 10	133
Truck Co. No. 13	58
Engine Co. No. 3	91
Engine Co. No. 4	98
Engine Co. No. 5	91
Engine Co. No. 8	109
Engine Co. No. 9	102
Squad A	283
Squad B	388

CAUSES OF FIRES AND ALARMS

Accident with furnace,	1
Accident with oil heater,	1
Acetylene gas,	1
Alcohol lamp,	1
Ammonia fumes,	1
Back draft (smoke),	5
Back fire,	20
Boiling soap,	1
Bonfires,	5
Broken acid carboy,	1
Broken oil pipe,	1
Brush, forest, grass, leaves,	301
Burning grease,	2
Burning meat,	3
Careless smoking,	50
Careless with benzine,	1

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Careless burning of rubbish,	1
Careless with candle,	3
Careless with gasoline,	8
Careless with matches,	10
Careless plumbers,	1
Children and matches,	22
Children playing with fire,	1
Chimney fires,	34
Clothing near stove,	1
Defective chimney (flue),	10
Defective fireplace,	1
Defective furnace,	1
Defective installation of heater,	1
Defective insulation,	1
Defective stovepipe (smokepipe),	5
Defective wiring,	1
Dirty ventilator,	1
Drying plaster,	1
Dumping grounds,	30
Electric flatiron,	2
Electric motor,	1
Explosion of gas,	2
False alarms,	64
Fireworks,	4
Foul smokepipe (flue),	3
Gas heater (stove) (plate),	5
Gas stove and curtain,	1
Gas jet and curtain,	3
Gasoline,	2
Gasoline leak,	1
Gasoline torch,	1
Heat from stack,	1
Heat from oven,	1
Hot ashes,	16
Hot box,	1
Hot lead,	1
Hot tar,	2
Incendiary,	14
Lace curtain and match,	1
Lamp overturned by chickens,	1
Leak in gas pipe,	1
Lightning,	6
Lime,	2
Malicious mischief,	7
Lumber near boiler,	1
Needless alarms,	61
Oil heater (stove),	16
Open grate,	1
Overheated furnace,	6
Overheated motor,	2
Overheated oil,	1
Overheated stove,	5
Overheated stovepipe (smokepipe),	2
Overturned railroad engine,	1
Paper and smokepipe,	1

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Plumber's torch,	2
Pipe covering near boiler,	1
Rekindling of former fire,	2
Rubbish chute,	1
Rubbish in barrels,	8
Rubbish in basement,	2
Rubbish, miscellaneous,	28
Rubbish near stove,	1
Sawdust,	4
Second alarms,	1
Short circuit,	2
Smoke (unusual),	2
Smoking in bed,	2
Sparks from buffing machine,	1
Sparks from chimney (stack),	1
Sparks from locomotive,	7
Sparks from picker,	1
Sparks from road roller,	1
Sparks from stove (furnace),	1
Spark in bag of charcoal,	1
Spark in woodbox,	1
Spontaneous combustion,	2
Testing thermostat,	1
Thawing waterpipes,	4
Torch,	1
Trolly cars,	30
Unknown,	166
Wood in oven,	1
Wood near heater,	1
Total,	1,044

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POLICE DEPARTMENT.

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REPORT

OF THE

BOARD OF POLICE COMMISSIONERS

To His Honor, the Mayor, and the City Council of the City of Springfield.

GENTLEMEN:—The Board of Police Commissioners submits to you herewith the annual report of the department for the year ending November 30, 1917.

The personnel of the Board has not changed during the year.

INCIDENTS OF THE YEAR.

The work of the department during the year has shown a marked increase in efficiency as demonstrated by the fact that the number of arrests increased over the past year by fifty per cent or more. There was ten per cent increase in the arrests for drunkenness and fifty per cent increase in arrests for larceny.

There has been no exceptionally serious crimes committed in the city during the year and public order has been well maintained.

The department has been very successful in apprehending automobile thieves and recovering stolen automobiles.

The city still holds its good reputation for cleanliness along the lines of illegal liquor selling, prostitution, and gambling.

The discipline in the department throughout the year has been uniformly good. There have been a few cases where men have been before the Board for violation of the rules and misconduct and proper penalties have been imposed.

The amended police ordinance which became effective during the year was much needed and greatly appreciated by the Board.

EQUIPMENT.

The department is well equipped with men and automobile apparatus. The work of the automobile patrol cars has been very much appreciated and if the times did not call for the strictest economy we would request

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that we be allowed money to have two more of these cars. As showing how economical these cars are as compared to horses we would call your attention to the fact that the cost of the upkeep of these cars during the year was $2,448 and, as compared to the $3,200 it cost to maintain horses, shows, notwithstanding the increased cost of gasoline and oil, about twenty-five per cent decrease in cost and one hundred per cent increase in efficiency. These three cars covered over 73,000 miles during the year.

During the war there will be increased demands upon the members of the department owing to our purpose to co-operate in every way with the Federal Government in suppressing disloyalty and investigating complaints against disloyal persons, assisting the city draft boards, and in other ways aiding and co-operating with the Federal authorities.

DEATHS AND RETIREMENTS.

There have been four deaths during the year among members of the department, Sergeant Patrick H. McDonald; William H. Sibley, patrolman retired; Calvin W. Jennings, patrolman retired; Paul J. O'Brien patrolman retired.

The retirements during the year were as follows: Charles M. Wright, deputy chief; John H. Boyle, deputy chief; John J. O'Malley, captain; James C. Burke, detective lieutenant; David J. Manning, lieutenant; E. Frank Goodwin, sergeant; Patrick J. McCallin, sergeant; Thomas Ranney, patrolman; Ernest Rosenberg, patrolman; Edgar Kirk, patrolman; James H. Rogers, patrolman.

Promotions have been made to the various vacant positions from the Civil Service list and the department to-day is in a position to render high class service to the community.

RECOMMENDATIONS.

We wish to call the attention of your Board to the necessity of an appropriation this year to enlarge the police building so as to relieve the cramped conditions attaching to the offices used by the police court and its officials as well as to give a little added room to the department. The crowded condition of the offices of the Judge, Court Clerks, and Probation Officers is much to be deplored, and we trust that your Board will give us the funds wherewith to enlarge the building and thus reform the present conditions.

We further recommend that sufficient funds be provided in our annual appropriation so that we may turn in our three Ford patrol cars for new

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ones, and of course, whatever is received for the old cars will be turned into the city treasury; this will insure continued good service.

The Board does not expect to ask for any additional men or equipment, nor any sum in excess of the appropriation for the past year.

The report of the Chief of Police to the Board of Police Commissioners is attached hereto and is submitted as a part of this report.

In conclusion, we desire to thank His Honor, the Mayor, and your Honorable Board for the co-operation and support given us during the year.

Respectfully submitted,

DANIEL J. BROWN, M.D., *Chairman,*
CHAS. F. SPELLMAN,
J. G. ROY,
Board of Police Commissioners.

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ANNUAL REPORT

OF

CHIEF OF POLICE

To the Board of Police Commissioners of the City of Springfield.

GENTLEMEN:—I herewith submit the Annual Report of the Chief of Police for the year ending November 30, 1917.

Respectfully submitted,

WILLIAM J. QUILTY,

Chief of Police.

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CITY OF SPRINGFIELD, MASSACHUSETTS.

1917.

Population,.....105,000
Area,.....38.51 square miles
Public streets,.....191 miles

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The following is a schedule and valuation of the property in charge of the Police Department.

Land,	$63,433.00
Buildings,	118,600.00
Signal system,	15,000.00
Auto equipment,	8,000.00
Office equipment,	3,500.00
Other equipment,	8,000.00
Total,	$216,533.00

APPROPRIATIONS, EXPENDITURES.

Appropriation,		$303,768.61
Expenditures,	$296,656.82	
Balance,	7,111.79	
		$303,768.61

RECEIPTS.

Fines,	$14,619.33
All others,	1,629.44

COMPOSITION OF FORCE.

Chief,	1
Deputy Chief,	1
Captain of Detectives,	1
Captains,	3
Detective Lieutenants,	10
Lieutenants,	2
Sergeants,	12
Patrolmen, Grade A,	127
Patrolmen, Grade B,	5
Patrolmen, Grade C,	18
Reservemen,	20
Department Clerk,	1
Clerks,	2
Chauffeurs,	6
Matrons,	2
Telephone Operators,	2
Superintendent of Signal System,	1
Janitors,	3
Janitress,	1

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RETIRED.

Deputy Chief,	2
Captain,	1
Detective Lieutenants,	2
Lieutenant,	1
Sergeants,	3
Patrolmen,	5

NUMBER OF LICENSES ISSUED AND FEES COLLECTED DURING THE YEAR ENDING NOVEMBER 30, 1917.

24 auctioneers,	$48.00
10 bowling alleys,	20.00
261 express,	261.00
17 intelligence offices,	34.00
54 jitneys,	254.00
50 jitney operators,	50.00
5 pawnbrokers,	250.00
68 poolrooms,	872.00
187 rag pickers,	561.00
62 second hand dealers,	124.00
898 taxicabs,	898.00
81 fruits and vegetables,	2,025.00
Total,	$5,397.00

TOTAL NUMBER OF DAYS LOST BY SICKNESS, ABSENCE, AND VACATION BY MEMBERS OF THE DEPARTMENT.

Total number on special duty,	1,768
Total number on sick list,	1,510
Total number on vacation,	2,336
Total number on leave of absence,	412
Total number days off,	3,549

MISCELLANEOUS DUTIES.

Accidents reported,	1,348
Buildings opened and secured,	2,083
Defective streets reported,	109
Sidewalks reported defective,	202
Disturbances suppressed,	7
Electric lights out,	1,865
Fire alarms pulled in,	37
Fire alarms reported,	231
Fires extinguished by officers,	9
Intoxicated persons sent home,	21
Lost children restored,	132

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ACCIDENTS REPORTED BY POLICE OFFICERS.

For the Year Ending November 30, 1917.

Accidental shooting,	1
Asphyxiation,	11
Automobiles,	885
Bicycles,	80
Bites from dogs,	2
Drowning,	6
Electrocution,	1
Elevators,	2
Fainting,	10
Falls,	91
Falling objects,	5
Fires,	3
Fits,	6
Highways, defects in,	1
Kicks from horses,	2
Motorcycles,	69
Runaway horses,	15
Sick on street,	11
Sliding,	1
Steam railroads,	10
Suicide,	6
Teams,	70
Trolley cars,	60
Total,	1,348

An inspection of the records of these accidents shows that in 140 cases the pedestrian was to blame.

PATROL AND AMBULANCE REPORT.

	MODEL R.			MODEL GR.		
	Regular.	Emergency.	Fire.	Regular.	Emergency.	Fire.
December,	242	2	7	9	1	0
January,	282	5	3	20	2	1
February,	60	2	1	14	0	0
March,	218	2	5	2	1	0
April,	199	3	10	3	0	0
May,	35	4	0	0	0	0
June,	205	4	3	1	0	0
July,	110	3	0	1	0	0
August,	239	15	2	2	2	0
September,	279	7	4	2	0	0
October,	273	4	5	0	0	0
November,	159	1	5	1	0	0
	2,301	52	45	55	6	1
	Total runs,		2,398	Total runs,		62

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	WHITE.			TOURING CAR.		
	Regular.	Emergency	Fire.	Regular.	Emergency.	Fire.
December,	185	19	2	206	4	0
January,	140	11	1	212	3	0
February,	270	16	11	127	5	0
March,	239	12	6	193	5	0
April,	205	10	8	267	3	3
May,	239	30	0	247	12	5
June,	346	23	1	221	4	0
July,	360	20	5	289	8	0
August,	218	41	3	262	3	0
September,	173	26	5	271	5	0
October,	136	23	8	232	4	0
November,	184	15	13	231	4	0
	2,695	246	63	2,758	60	8
	Total runs,.....3,004			Total runs,.....2,826		

Number of miles run during the year, Model R,..... 3,322
Number of miles run during the year, Model GR,..... 101
Number of miles run during the year, White,..... 6,754
Number of miles run during the year, Touring Car,..... 8,350

Number of miles run during the year, all autos,..... 18,527

CHARGES ON WHICH ARRESTS WERE MADE.
CRIMES AGAINST THE PERSON.

	1913	1914	1915	1916	1917
Abduction,.....	0	0	0	1	0
Assault and battery,.....	156	168	152	152	213
Assault, felonious,.....	0	0	1	0	0
Assault on officer,.....	18	29	26	36	22
Assault with deadly weapon,.....	21	19	18	14	24
Assault with intent to kill,.....	0	1	3	2	1
Assault, indecent,.....	0	4	2	1	1
Assault and robbery,.....	7	0	1	7	2
Assault, attempt to rob,.....	1	7	0	0	0
Highway robbery,.....	2	0	0	0	0
Manslaughter,.....	1	1	3	2	2
Murder,.....	1	7	2	1	2
Murder, attempt,.....	1	0	0	0	0
Rape,.....	1	3	3	1	3
Rape, attempt,.....	4	0	1	2	1
Robbery,.....	6	1	2	1	0
Threatening,.....	0	0	1	5	2
	219	240	215	225	273

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CRIMES AGAINST PROPERTY.

	1913	1914	1915	1916	1917
Arson,	1	0	0	0	0
Breaking and entering,	35	42	26	29	61
Breaking and entering, attempt,	2	0	3	0	2
Breaking glass,	11	3	5	9	13
Breaking into a letter box,	0	0	0	1	0
Burning a building,	1	0	2	0	0
Concealing leased property,	0	2	0	6	1
Concealing mortgaged property,	0	0	0	0	1
Defrauding electric light company,	0	0	0	2	0
Defrauding hotel,	0	0	0	2	0
Defrauding an insurance company,	0	0	1	0	1
Destroying property,	4	23	1	5	13
Destroying railroad property,	6	0	0	0	0
Driving away an auto,	13	3	21	7	28
Driving away a team,	2	6	2	0	0
Embezzlement,	0	0	0	0	1
Evading railroad fare,	5	4	4	2	3
Extortion,	2	2	1	0	0
Fortune telling,	0	0	4	2	0
Injuring personal property,	0	0	0	0	7
Larceny,	262	296	250	203	317
Larceny, attempt,	0	5	6	1	4
Larceny from common carrier,	3	7	3	3	13
Larceny from the person,	8	8	2	2	2
Larceny from the person, attempt,	0	0	1	0	1
Larceny in a building,	12	6	12	3	8
Malicious mischief,	12	10	7	3	9
Mortgaging leased property,	0	0	1	0	0
Obtaining goods under false pretenses,	0	0	0	1	0
Placing explosives in a building,	0	1	0	0	0
Placing explosives on street car tracks,	0	1	0	0	0
Receiving stolen goods,	7	5	10	8	19
Removing and concealing personal property,	0	1	0	0	2
Retaining city library books,	0	0	0	1	0
Selling leased property,	1	4	0	2	1
Selling mortgaged property,	0	0	1	0	0
Stealing a ride,	0	0	0	0	3
Taking and using,	0	2	0	0	0
Throwing missiles at autos,	0	0	0	1	0
Throwing missiles at railroad car,	1	0	0	0	0
Trespass,	95	38	22	23	22
Trespass of fowls,	2	0	0	0	0
Unlawful taking,	0	0	0	0	6
Uttering worthless checks,	0	0	1	2	0
Uttering worthless checks, attempt,	0	1	0	0	0
	485	470	386	318	538

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CRIMES AGAINST THE PUBLIC ORDER.

	1913	1914	1915	1916	1917
Abandoning child,	0	0	0	1	0
Abandonment,	0	8	3	14	15
Abortion,	0	1	0	0	2
Abortion, accessory to,	0	1	0	0	1
Accosting a female,	0	0	1	0	0
Adultery,	2	4	9	2	15
Attempt to bribe,	0	1	0	0	0
Bastardy,	12	14	26	18	33
Being present at illegal game,	22	9	22	0	2
Being present where lottery is promoted,	0	46	12	26	0
Being present at opium resort,	13	7	0	0	0
Bench warrant,	0	0	1	1	0
Bigamy,	0	1	0	0	3
Breach of the peace,	179	213	185	184	143
Buying junk from minors,	0	0	0	1	1
Carrying concealed weapons,	42	42	45	45	37
Committing a nuisance,	0	0	0	0	1
Common brawler,	0	0	0	1	1
Common night walker,	4	21	9	19	8
Concealing birth of illegal child,	0	1	0	0	0
Contempt of court,	0	1	0	2	3
Crime against chastity,	6	9	13	6	2
Cruelty to animals,	3	2	2	4	5
Delinquents,	59	98	79	59	26
Deserters,	0	1	4	3	4
Disorderly conduct,	3	17	28	16	25
Disorderly house keeping,	0	0	8	4	10
Distributing obscene literature,	0	0	1	0	0
Disturbing a meeting,	8	6	8	19	7
Disturbance on street car,	3	2	2	7	7
Drunkenness,	2,721	2,499	2,047	2,195	2,473
Enticing female to prostitution,	0	1	0	0	0
Escaped lunatic,	1	0	2	1	0
Escaped from Lyman School,	2	1	0	0	3
Forgery,	1	1	0	2	0
Fornication,	36	63	34	22	34
Fugitive from justice,	104	92	85	108	120
Furnishing liquor to soldiers,	0	0	0	0	15
Gambling,	48	46	86	51	143
Gaming on Lord's day,	0	31	14	12	45
Habitual truant,	1	5	0	1	0
Having obscene literature,	0	0	1	0	0
Having obscene pictures,	0	1	0	0	0
Impersonating an officer,	5	1	0	0	0
Incest,	0	0	1	1	0
Indecent exposure,	9	7	10	6	4
Insane,	20	37	55	44	42
Interfering with an officer,	2	0	0	0	0
Itinerant vendor,	0	1	2	1	0
Keeping gambling house,	1	2	6	2	7

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	1913	1914	1915	1916	1917
Keeping house of ill-fame,	0	2	6	0	0
Keeping a liquor nuisance,	0	0	0	0	2
Keeping unlicensed dog,	19	14	35	25	17
Lewd and lascivious,	0	0	11	0	0
Lewd and lascivious cohabitation,	29	26	7	15	31
Making false report of birth of child,	0	1	0	0	0
Mutilating U. S. flag,	0	0	0	1	3
Neglecting to report birth of illegal child,	0	1	0	0	0
Non-payment of fine,	14	3	0	0	0
Non-support,	59	104	107	102	153
Not having lights on vehicle,	0	14	0	14	0
Not recognizing police court,	0	0	0	0	1
Not registering for draft,	0	0	0	0	11
Operating auto under influence of liquor,	0	2	16	4	28
Operating poolroom without license,	0	1	0	0	0
Peddling without a license,	18	13	6	5	13
Perjury,	0	3	2	0	0
Placing obstruction on street car tracks,	0	0	0	0	2
Possession of lottery tickets,	0	1	0	0	0
Profane and indecent language,	50	32	25	24	13
Promoting a lottery,	3	8	4	1	0
Promoting a lottery, assisting in,	0	1	0	0	0
Reckless driving,	3	1	2	4	19
Ringing false fire alarm,	4	1	0	2	1
Runaways,	62	71	96	69	120
Selling fireworks without a permit,	0	0	0	0	1
Selling instrument to prevent conception,	0	0	1	0	0
Sodomy,	0	0	0	1	0
Storing explosives without a permit,	0	0	0	0	1
Straggler from U. S. Navy,	0	0	0	0	1
Stubborn and disobedient,	12	8	10	24	22
Surrendered by bondsman,	0	1	1	0	0
Surrendered by probation officer,	0	2	0	0	0
Suspicion,	302	273	206	256	345
Unnatural act,	2	1	5	6	5
Unnatural act, attempt,	0	1	0	0	0
Vagrancy,	130	153	150	100	140
Violating alien labor law,	0	0	2	0	0
Violating bottle law,	0	0	7	0	2
Violating bicycle law,	0	0	2	0	0
Violating building law,	0	8	0	0	0
Violating city ordinances,	72	95	68	56	186
Violating corporation law,	0	1	0	0	0
Violating drug law,	7	10	17	12	6
Violating employment law,	0	0	5	6	2
Violating food law,	16	19	3	0	0
Violating fowl law,	0	0	1	0	0
Violating game law,	1	0	0	0	0
Violating garbage law,	0	1	3	0	0
Violating gasoline law,	0	0	0	0	2
Violating health law,	4	2	4	0	0
Violating insurance law,	0	1	0	0	0

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	1913	1914	1915	1916	1917
Violating intelligence office law,	6	8	0	0	0
Violating labor law,	1	1	1	0	0
Violating license law,	1	0	0	1	4
Violating liquor law,	53	55	61	66	47
Violating Lord's day,	20	12	8	6	24
Violating lottery law,	0	0	3	0	2
Violating marriage law,	0	0	0	1	0
Violating match law,	0	0	4	0	0
Violating medical registration,	0	6	3	0	2
Violating milk law,	1	2	1	0	0
Violating motor law,	62	86	96	215	376
Violating opium law,	1	9	0	0	0
Violating park ordinance,	9	6	6	4	3
Violating probation,	6	34	86	109	162
Violating plumbers' law,	3	3	0	0	0
Violating poolroom law,	0	0	1	0	0
Violating quarantine law,	0	4	0	0	0
Violating school law,	0	0	2	1	2
Violating smoke law,	7	1	0	0	0
Violating state boiler inspection law,	0	0	3	1	0
Violating a regulation of State Fire law,	0	3	0	0	0
Violating traffic law,	39	35	32	25	64
Violating United States postal law,	0	0	0	1	1
Violating vehicle law,	0	1	0	0	0
Violating weights and measures law,	0	1	3	6	8
Violating white slave law,	2	0	0	0	0
Walking railroad tracks,	58	69	37	37	32
Witnesses, held by Court,	0	5	2	4	0
	4,383	4,509	3,954	4,082	5,091

RECAPITULATION.

	1913	1914	1915	1916	1917
Total crimes against the person,	219	240	215	225	273
Total crimes against property,	485	470	386	318	538
Total crimes against the public order,	4,383	4,509	3,954	4,082	5,091
	5,087	5,219	4,555	4,625	5,902

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NATIVITY OF PRISONERS.

	Males.	Females.		Males.	Females.
Arabia,	1	0	India,	2	0
Armenia,	4	0	Ireland,	471	44
Asia,	1	0	Italy,	254	10
Australia,	1	0	Norway,	4	0
Austria,	134	9	Persia,	2	0
Belgium,	3	0	Poland,	32	1
Bohemia,	3	0	Portugal,	3	0
Canada,	256	10	Roumania,	2	1
China,	24	0	Russia,	430	16
Cuba,	1	0	Scotland,	65	1
Denmark,	11	2	Spain,	5	0
England,	62	8	Sweden,	64	1
Finland,	6	1	Switzerland,	2	0
France,	5	0	Syria,	45	0
Germany	36	2	South America,	2	0
Greece,	81	0	Turkey,	22	1
Greenland,	1	0	United States,	3,280	189
Holland,	2	0	Unknown,	280	3
Hungary	1	0	West Indies,	5	0

Total, Males, 5,603; Females, 299.

Total, 5,902.

CLASSIFICATION OF AGES OF PRISONERS.

Ages	10–20	21–30	31–40	41–50	Over 50	Unknown	Total
Males	607	1,773	1,354	993	578	298	5,603
Females	40	121	69	51	15	3	299
Total arrests							5,902

RECORD OF JUVENILE CASES.

BOYS.

Assault and battery,	16	Profanity,	1
Breaking and entering,	49	Ringing false alarms,	1
Carrying revolver,	3	Selling newspapers without license,	1
Defacing a building,	1	Stubbornness,	11
Disturbing an assembly,	2	Taking boat,	1
Disturbing a library,	1	Throwing glass in street,	1
Drunkenness,	1	Trespass,	6
Fornication,	3	Truants,	26
Injuring personal property,	7	Vagrancy,	1
Larceny,	78	Violation auto law,	5
Larceny in a building,	1	Violation city ordinance,	5
Neglected children,	34		
Total,			255

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GIRLS.

Fornication,	2	Truancy,	2
Illegal liquor selling,	1	Unnatural Act,	1
Larceny,	8	Vagrancy,	1
Stubbornness,	13	Wayward,	4
Total,			32

DISPOSITION OF CASES.

BOYS.

Committed to Lyman school,	7	Filed,	48
Committed to Shirley,	2	Fined,	10
Committed to State Board of Charity,	12	Probation, placed on,	88
Committed to Truant school,	16	Suspended sentence to Lyman school,	12
Continued from day to day,	18	Suspended sentence to Shirley,	10
Discharged,	8		
Total,			231

GIRLS.

Committed to Lancaster,	5	Probation, placed on,	16
Filed,	8	Suspended sentence to Lancaster,	3
Total,			32

REPORT OF THE MATRONS.

	Female Prisoners.	Female Lodgers.	Lost Children.
December,	20	5	7
January,	14	2	6
February,	19	1	5
March,	21	0	20
April,	26	3	17
May,	20	1	14
June,	29	1	14
July,	32	1	15
August,	34	4	15
September,	32	2	21
October,	32	1	11
November,	20	2	1
	299	23	146

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OFFENSES.

Adultery,	6
Assault,	3
Breach of peace,	8
Breaking glass,	1
Common night walker,	8
Crime against chastity,	1
Disorderly house keeping,	7
Drunkenness,	125
Fornication,	15
Fugitive from justice,	9
Insane,	15
Larceny,	26
Lewd and lascivious cohabitation,	15
Receiving stolen goods,	1
Runaways,	10
Stubborn child,	6
Suspicion,	6
Unnatural act,	1
Vagrancy,	21
Violating liquor law,	4
Violating U. S. Postal laws,	1
Probation, violating,	10
Total,	299

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TABULATED STATEMENT OF ARRESTS

For the Year Ending November 30, 1917.

MONTHS.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Totals
Males	417	420	350	451	455	522	530	563	639	477	384	395	5,603
Females	20	14	19	21	26	20	29	32	34	32	32	20	299
Minors	66	54	36	60	49	48	80	82	75	51	68	67	736
Adults	371	380	333	412	432	494	479	513	598	458	348	348	5,166
Residents	316	290	286	324	330	365	365	418	452	337	283	297	4,063
Non-Residents	121	144	83	148	151	177	194	177	221	172	133	118	1,839
Americans	269	280	236	286	308	348	371	402	432	322	291	313	3,858
Foreigners	168	154	133	186	178	194	188	193	241	187	125	102	2,049
Totals	437	434	369	472	481	542	559	595	673	509	416	415	5,902

DISPOSITION OF CASES.

Fined and Paid	40	50	58	52	73	92	87	134	142	69	57	90	944
Fined and Committed	32	20	11	23	30	15	48	36	27	21	13	15	291
Committed for Sentence	26	36	23	14	18	23	35	24	29	20	23	25	296
Probated	38	46	38	13	27	33	58	14	52	20	15	33	387
Sentence suspended	54	68	58	70	53	141	7	164	183	172	254	212	1,436
Appealed	0	2	0	4	6	3	0	5	3	6	2	7	32
Bound Over to Superior Court	4	3	0	1	0	0	0	8	0	3	0	0	19
Released	91	139	81	26	1	43	6	57	88	124	116	10	782
Discharged	1	14	3	6	3	10	0	7	6	5	2	4	61
Pending	372	219	257	246	241	258	310	177	190	71	0	1	2,101
Filed Away	20	20	22	22	21	21	36	37	41	31	41	28	340

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REPORT OF

WATER COMMISSIONERS

FOR 1917

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CITY OF SPRINGFIELD, MASSACHUSETTS,
MUNICIPAL WATER WORKS.
1918.

BOARD OF WATER COMMISSIONERS.

EDWIN A. BLODGETT, *Chairman*,	Term expires February 1, 1919.
CHARLES H. MULLIGAN,	Term expires February 1, 1920
FRANK E. STACY, *Mayor*,	ex officio.

SUPERINTENDENT:
ALFRED E. MARTIN.

WATER REGISTRAR AND CLERK OF BOARD:
ALFRED R. HATHAWAY.

CHIEF ENGINEER:
ELBERT E. LOCHRIDGE

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WATER COMMISSIONERS' REPORT

WATER COMMISSIONERS' OFFICE.
ADMINISTRATION BUILDING.

SPRINGFIELD, MASS., December 31, 1917.

To the City Council of the City of Springfield, Mass.

GENTLEMEN:—The Board of Water Commissioners herewith submits the forty-fourth annual report of the Municipal Water Works of Springfield, the same covering the fiscal year ending November 30, 1917.

The total *earnings* (not cash receipts) for the past year are here summarized as follows, being shown in detail in the Registrar's report to the Board:—

Net water charges to private consumers,	$446,106.16
Water service to municipal departments (uncollectible, per city ordinance),	72,033.06
Water used by water works, and charged in its operating expenses,	84.20
Total,	$518,223.42

The above total for twelve months is an increase of $3,176.37 over the *thirteen* months' total of the preceding year (see 1916 report for change in earnings basis), but on a *twelve months' basis* for both years the actual results are as follows:—

Increase in *net* charges to private consumers,	$33,265.04
Increase in municipal use of water,	3,217.61
Net increase in earnings (12 months' basis),	$36,482.65

The above increased earnings from private consumers includes $23,600 from the domestic and commercial class within the city, $5,200 from the industrial class within the city, and $4,400 from the suburban class of consumers.

The total *cash receipts* during the past year, from all sources, amounted

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to $520,098.25, including $443,262.17 for water sales, $56,305.59 for miscellaneous sales (labor, material, etc.), $530.49 for refunds, and $20,000 for settlement of claim against the Berkshire Street Railway Company.

The increase of $31,839.04 in water receipts, over such receipts for the year preceding, more than made good the estimated increase of $28,500 in same at the beginning of the year.

The cash revenue has been sufficient to take care of all expenditures, of whatever nature,—including operating and maintenance expenses, interest and payments on bonded debt, main pipe extensions and renewals, property and equipment costs, settlement of damage claims, and a generous contribution to the sinking fund.

The cost of ordinary operation and maintenance increased about eight per cent, which is considered a good showing under the prevailing unusual conditions. This does not include the "public safety" expense, for a thorough and constant special protection of the city's water supply in consequence of the war.

Owing to the high cost of labor and material there has been less demand for main pipe extensions in consequence of real estate developments, only such extensions having been made as were deemed necessary, and nearly all of these were on a guaranteed-revenue basis.

Renewal and improvement work in the distribution system has been practically all deferred until labor and financial conditions improve, although such betterments have been long planned for and are much needed. The principal work of this nature has been the transferring of the 30" main from the property of the Fiberloid Company to Worcester street, I. O., and the replacing of the 4" main in Sherman street by an 8" pipe.

Early in the year a goodly supply of cast-iron pipe stock was advantageously purchased, and is now stored in the Colton street yard. This has become a valuable property asset, the price of cast-iron pipe having since been quoted at an advance of nearly 68 per cent over the price in our contract.

Additions to the cost of plant, property and equipment during the year have totaled $71,504.20;—the principal items being $27,948.52 for extensions of distribution mains, $7,218.09 for gates, hydrants, services and meters, $5,506.39 for land and land expense (net), $2,521.84 for equipment, etc., and $17,500 for Little River supply water rights. The above includes the settlement of three long-pending suits on account of the Little River supply, viz.:—

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Claim of Frederick M. Waite and Byron H. Waite against City of Springfield (account land), settled by payment of $17,000;—

Claim of Westfield Marble and Sandstone Co. (account water diversion), settled by payment of $17,500;—

Claim of City of Springfield against the Berkshire Street Railway Co. (account land), settled by payment of $20,000 to the Water Works.

Remaining unsettled suits, on account of the Little River water supply, now include the claim of Vincent E. Barnes, et al, and a few relatively small claims by sundry parties.

The total book cost of the plant, property and equipment, November 30, 1917, amounted to $5,650,646.12. A valuation of the plant and property is expected to be available early in the coming year, or as soon as the appraisal and cost analysis of the plant,—now practically completed by the engineering division,—can be adopted and applied, and proper depreciation charges definitely determined.

The following are the 1917 payments on account of the water works' bonded debt:—

Interest paid on Ludlow supply bonds,	$10,375.00
Interest paid on Little River supply bonds,	69,975.00
Total interest paid,	$80,350.00
Little River serial bonds paid,	89,000.00
Annual amount for Sinking Fund for retirement of balance of Ludlow supply bonds (surplus cash receipts for 1917),	16,406.78
Total payments on account of bonded water debt,	$185,756.78

The increase of $6,288.90 over such payments in 1916 includes serial bonds due of 1916 issue and a larger cash surplus for the sinking fund.

The bonded debt on account of the water works at the close of the year is as follows:—

Ludlow supply sinking fund bonds due in 1920 and 1923,	$275,000.00
Little River supply serial bonds,	1,843,000.00
Total,	$2,118,000.00
Less sinking fund for retirement of Ludlow supply bonds,	170,143.77
Net bonded water debt, November 30, 1917,	$1,947,856.23

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This shows a reduction of $110,921.40 in the net bonded debt during the past year.

The 1918 requirements on account of the bonded water debt will be the following:—

Interest on Ludlow supply bonds,	$10,375.00
Interest on Little River supply bonds,	66,685.00
Total interest,	$77,060.00
Little River supply serial bonds due,	89,000.00
Annual amount for sinking fund for retirement of Ludlow supply bonds,	15,500.00
Total 1918 requirements,	$181,560.00

The Little River system has met all demands made upon it during the past year, and has continued to furnish a supply of excellent quality and ample for the needs of the city, as well as for those of its neighbors who also depend upon the system, under existing contracts. An emergency supply has also been furnished the neighboring city of Chicopee at times of its shortage.

The town of Ludlow has been supplied from Ludlow reservoir with water of good quality, which has been filtered during the summer period.

The Board of Water Commissioners greatly regrets that the City Council has not found time the past year to give the needed consideration,—through some committee or otherwise,—to the proper adjustment of the long-delayed matter of compensation to the municipal water works utility for water and service furnished to the various governmental departments of the city.

This matter has been brought to the attention of your Honorable Body annually for many years, and more urgently in the recent reports of this Board, and in the Mayor's inaugural addresses, to which reference is again invited at this time. Also under date of January 17, 1917, we submitted a special communication to your Honorable Body in regard to the matter, and this communication was "Referred to the committee on Finance" under date of January 22, 1917.

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It is strongly hoped and expected that the coming year will see this much-needed progressive step taken, whereby the municipal water works, as a self-supporting "public service enterprise," will be enabled to make the right "business showing" to its owners (the people), so that at all times a proper comparison can be made between such *municipally-owned* and operated utility and any other similar utility *privately-owned* and operated; and also to the end that a *sound and reliable basis* may thereby be established for the consideration and adjustment of equitable water rates.

As stated in previous reports, such a step should also provide for payment to the municipality by the water works for all expenses properly chargeable to same, including taxes on its local property, and collecting, auditing and treasury expenses, as well as the office rental, which latter has been so paid since the water works offices were transferred to the administration building.

Another and important phase of the matter, not generally realized by the people, is the fact that each governmental department of the municipality now *fails to show its true and full cost of operation*, by just the expense for water it uses. This of course is costing somebody something, and if such cost is not borne by the municipal user, then the paying consumers are made to bear a double burden, and the tax payer and citizen is annually misled in the city budget and in the reports of such departments.

It would seem that more than enough facts had already been presented to insure a speedy and reasonable adjustment of the whole matter, but should there be needed additional facts and the opinions of those who have made special study of the matter, and whose conclusions should carry weight, reference may be made to such available material on file in this office.

The total amount of such municipal use of water during the past year (partly metered and partly estimated) is computed at about $72,000.00, and this amount has to be entered on the books of the water works, and then charged off as a bad debt!

The usual tabulation of same is submitted, as follows:—

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MUNICIPAL USE OF WATER—1917.

(☞ Unmetered quantities, in gallons, *estimated* from amounts, on basis of 6⅔ cents per 1,000 gallons,—or equivalent of 5 cents per 100 cubic feet;—per cent. metered computed on quantities.)

Classification.	Amounts.	Gallons.	Memo.
Schools,.....	$12,795.39	189,831,600	93% metered
Public Buildings (except schools),	2,160.61	32,394,300	68% metered
Public Parks,.....	2,208.14	32,100,400	52% metered
Public Playgrounds,.....	152.00	2,280,000	Unmetered
Municipal Market,.....	9.05	75,500	Metered
Building Purposes (Streets and Engineering Department),...	426.75	6,384,600	Unmetered
Street Sprinkling and Washing (many streets now oiled),.....	1,800.00	26,929,900	Unmetered
Sewer Department (flushing),..	6,050.00	90,514,300	Unmetered
Watering Tanks and Drinking Fountains,.....	706.12	10,564,000	1% metered
Total of above,.....	$26,308.06	391,074,600	
Fire Hydrant Service,.....	45,725.00	(Not reducible to quantities)	At $25 per hydrant
Total Municipal Use,....	$72,033.06	(As shown in report)	Registrar's

As stated before, the amounts for unmetered uses, shown in the foregoing tabulation, are based upon certain unit rates prescribed by city ordinance, and hence the estimated *quantities* in gallons probably represent much smaller results than if such uses were actually metered.

During the past year the Board has ordered meters installed, at the expense of the water works, on certain additional municipal services, as follows: four fire stations, two parks (Calhoun and Forest), police station at Indian Orchard, four additional schools, one watering tank, one drinking fountain, West street incinerating plant, one standpipe, and the city yard on Summer street. Nearly all of these meters have been installed.

This work is intended to be continued as fast as funds will allow, until *every municipal service*, possible to be metered, is placed under a meter control, in similar manner as are services for private consumers.

No compensation has been received from the Park department for its encroachment on water works land adjoining the former Van Horn reservoir property on Armory street, although attention was called to the matter both in our report of last year and in the Mayor's inaugural address.

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In our report for the year 1915, we referred to the fact that the water works offices did not appear in the mis-called "directories" near the entrances of the administration building, and to the generally admitted need for a better directory system; one that will adequately guide and serve the seeking public who so frequently wander blindly through the corridors. Nothing appears to have been done to remedy the conditions, although in 1914 a special committee was said to have been appointed for this purpose, and we are therefore again respectfully bringing the matter to your attention.

The water works property and equipment in general have been kept in an up-to-date condition, and the Colton street yard and service building are daily proving their worth in the efficient care and operation of the distribution system.

The Board of Water Commissioners, in its constant study of the conditions and needs of the municipal water works, in its administration of the trust committed to its care, and in its recommendations to your Honorable Body, has but a single purpose in mind, viz.—that this important municipal enterprise, so necessary and vital to the very life and progress of this community, shall at all times be kept free from pernicious exploitation, and that it shall be conducted in the most businesslike and progressive manner possible, to the end that it may give the best and most efficient service to the people of Springfield.

The details of the operation of the various divisions are given in the reports of the Registrar, Superintendent, and Chief Engineer, to the Board, which reports are hereto attached and made a part of this report to the City Council.

Respectfully submitted,

EDWIN A. BLODGETT,
CHARLES H. MULLIGAN,
FRANK E. STACY,
Board of Water Commissioners.

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WATER REGISTRAR'S REPORT

DECEMBER 31, 1917.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—The annual report of the Water Registrar, for the fiscal year ending November 30, 1917, is herewith submitted, as follows.

At the beginning of the year the anticipated water revenue was estimated at $440,000,—an increase of $28,500 over the 1916 revenue,—and it is gratifying to have such estimate more than realized, the actual water revenue for the year amounting to $443,262.17.

The cash receipts of the year have been sufficient to take care of all expenditures, including the settlement of certain long-pending claims on account of the Little River supply, and leave a goodly surplus for the water sinking fund.

The early adoption and application, during the coming year, of the appraisal and physical analysis of the water works property,—now nearing completion,—will enable a revised valuation to be used in future, and when definite depreciation charges for the entire plant and equipment are determined and included in the annual upkeep expenses, the full cost of operation can then be shown, with a true balance sheet of actual assets and liabilities, in accordance with the provisions of the accounting system, as adopted and so satisfactorily in use since December 1, 1913.

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This accounting system is modeled after the standard prescribed by the Wisconsin Railroad Commission,—one of the leading public utility commissions of the country,—and the following opinion, handed down by this commission in 1915, is worthy of note at this time, viz.:—

"A municipal water plant or electric plant should be treated as an enterprise, separate and distinct from the municipality itself, and the accounts kept accordingly."

The water works has suffered,—in common with the city departments,—from the lax methods of some real estate developers, in laying out private streets with dead ends, undetermined grades and boundaries liable to change, and lacking intersecting cross streets, etc.

In the Mayor's inaugural of January 1, 1917, attention was called to this matter, as follows:—

"Steps should be taken to regulate the haphazard practice of real estate owners laying out streets to suit their own convenience and without heed to the probable requirements of the future."

During the past year the Water Registrar has made some investigation of the matter and has learned that other cities have found a satisfactory remedy in the appointment of a "Board of Survey," as provided for in recent general acts of the Massachusetts legislature, viz.:—Chapter 190 of the Acts of 1916, and Chapter 185 of the Acts of 1917, together with special prior acts for particular cities. Such a board can be appointed by the Mayor, with the approval of the City Council, and might be made to include the City Engineer and certain members of the Planning Commission or of the Board of Public Works, or of any body now having such interests with only partial authority for remedying conditions.

The Water Registrar has on file lists of cities adopting such provisions, with highly commendatory statements regarding the results, and recommends that early consideration be given to the matter by the proper authorities.

The Water Registrar and the City Collector both are of the opinion that a change should be made in the method of notifying consumers when bills are due, and your Board has referred the matter to these officials for study and report.

It has been suggested that the first notification consist of the sending of the itemized bills to the consumers, in similar manner as is done by the gas and electric light companies.

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I believe, also, that the time allowed for payment should be shortened, and that our present regulations and custom be so revised as to insure a closer and more prompt collection of water works revenues.

Another much-needed improvement in our system is the ownership of all meters by the water works. Our experience only indicates,—what public utility commissions and others who have studied the matter state,—that a better and more effective service can be obtained by such ownership.

During the coming year the foregoing matters will be more fully placed before your Board, and are here merely suggested for your preliminary consideration meanwhile.

The report of the Water Registrar being largely a financial one, it seems best to continue the natural grouping and divisions of previous years, and I am therefore submitting the financial statements in the following order, viz.:—

INCOME AND PROFIT AND LOSS ACCOUNT, in condensed form, followed by details of its several items.

BALANCE SHEET, in condensed form, followed by details of its several items.

SUNDRY STATEMENTS OF CASH RECEIPTS AND EXPENDITURES, and showing same under the several funds.

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INCOME AND PROFIT AND LOSS ACCOUNT,
YEAR ENDING NOVEMBER 30, 1917.
(See Details of Items Following.)

	Operating Revenue.		
I.	Earnings from Sales of Water to Private Consumers,	$446,889.60	
II.	Less Abatements, Refunds, etc.,	783.44	
			$446,106.16
III.	Earnings from Sales of Water to City of Springfield:— Earnings based on prescribed rates for water supplied were $72,033.06;—but no payments were made therefor, as per city ordinance,		.....
III-A.	Water used by Municipal Water Works and included in its operating expenses,		84.20
	Total Operating Revenues (Water),		$446,190.36
	Operating Expenses.		
IV.	Source of Supply,	$38,587.26	
V.	Transmission Expense,	4,847.56	
VI.	Distribution Expense,	38,263.94	
VII.	Commercial Expense,	12,686.27	
VIII.	General Expense,	31,272.30	
IX.	Undistributed Expense,	9,058.09	
		$134,715.42	
IX-A.	Public Safety Expense,	12,273.61	
		$146,989.03	
X.	Depreciation Reserve Charge (for Distribution System),	36,000.00	
	Total Operating Expenses,		182,989.03
	Operating Profit,		$263,201.33
XI.	Non-Operating Income (Sundry Sales, not Water),		2,859.05
	Gross Income,		$266,060.38
	Deductions from Gross Income.		
XII.	Interest on Bonded Debt (*net*),	$73,664.54	
	Total Deductions,		73,664.54
	Net Income (carried to Surplus),		$192,395.84

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DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1917.

Operating Revenue.

Earnings from Sales of Water to Private Consumers:—

	Earnings.	Abatements and Refunds.	Net Revenue.
Commercial Consumers (metered),	$360,439.07	$268.70	$360,170.37
Industrial Consumers (metered),	57,448.65	57.63	57,391.02
Institutional Consumers (metered),	5,961.30	183.70	5,777.60
Sales to Contractors (metered),	1,098.45	11.19	1,087.26
Sales to Contractors (unmetered),	869.51	241.50	628.01
Miscellaneous Consumers (metered),	11.34	.....	11.34
Miscellaneous Consumers (unmetered),	4,834.07	19.32	4,814.75
Earnings from within City:—			
(Metered),	$424,958.81	$521.22	$424,437.59
(Unmetered),	5,703.58	260.82	5,442.76
Total,	$430,662.39	$782.04	$429,880.35
Commercial Sales, Little River Transmission Main (metered),	$64.48	.....	$64.48
Commercial Sales, Ludlow (metered),	1,849.39	$1.40	1,847.99
Commercial Sales, Ludlow (unmetered),	150.00	.....	150.00
Commercial Sales, Wilbraham (metered),	1,146.59	.....	1,146.59
Industrial Sales, Ludlow Mfg. Co.'s System (metered),	5,120.24	.....	5,120.24
Wholesale Service, Agawam (metered),	2,880.00	.....	2,880.00
Wholesale Service, Chicopee (metered),	2,595.29	.....	2,595.29
Wholesale Service, East Longmeadow (metered),	1,135.32	.....	1,135.32
Wholesale Service, Longmeadow (metered),	250.00	.....	250.00
Wholesale Service, West Springfield (metered),	1,035.90	.....	1,035.90
Earnings from outside City:—			
(Metered),	$16,077.21	$1.40	$16,075.81
(Unmetered),	150.00	.....	150.00
Total,	$16,227.21	$1.40	$16,225.81
Total Earnings from Sales to Private Consumers, as per Items I. and II.:—			
(Metered),	$441,036.02	$522.62	$440,513.40
(Unmetered),	5,853.58	260.82	5,592.76
Total,	$446,889.60	$783.44	$446,106.16

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DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1917.

Operating Revenue.—Continued.

Earnings from Sales of Water to City of Springfield:—		
Almshouse and Annexed Buildings (metered),		$647.30
Charities Department (Wayfarers' Lodge) (unmetered),		36.00
Drinking Fountains and Tanks (metered),	$9.45	
" " " " (unmetered),	696.67	
		706.12
Fire Department (buildings) (metered),	$91.55	
" " " (unmetered),	407.93	
	$499.48	
" " Municipal Hydrant Service (1,829 hydrants,—average during year,—at $25 each),	45,725.00	
		46,224.48
Forestry Department (buildings) (unmetered),		30.00
Municipal Group (buildings) (metered),	$221.05	
" " (heating plant) (metered),	68.65	
		289.70
Municipal Market (metered),		9.05
Park Department (fountains, ponds, hose, etc.):—		
(Metered),	$1,174.99	
(Unmetered),	1,033.15	
		2,208.14
Police Department (buildings) (metered),	$95.10	
" " " (unmetered),	28.50	
		123.60
Public Playgrounds (unmetered),		152.00
Public Sanitary (metered),		233.35
School Department (buildings) (metered),	$11,968.50	
" " " (unmetered),	826.89	
		12,795.39
Streets and Engineering Department:—		
Work-shop, Emery street (metered),	$17.95	
Buildings and yard, Summer street (unmetered),	99.50	
Building purposes (unmetered),	426.75	
Sewer flushing (605 flush gates—average during year—at $10 each) (unmetered),	6,050.00	
Scavenger Division:—		
Incinerating Plant, Logan st. (metered), $50.75		
" " West st. (metered), 41.65		
" " " " (unmetered), 5.33		
Buildings (unmetered), 86.00		
	183.73	
Street sprinkling and washing (unmetered),	1,800.00	
		8,577.93
Total Earnings from Sales to City of Springfield, as per Item III. (unmetered),	$57,403.72	
(metered),	14,629.34	
		$72,033.06

☞ **No payment is made for this amount by the City, as per City ordinance.**

Municipal Water Works (water used at Broadway garage and Colton street service buildings, and at No. 32 Birnie avenue,—included in Operating Expenses), as per Item III-A. (metered), **$84.20**

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DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1917.

Operating Expenses.

Source of Supply:—	*Ludlow Supply.*	*Little River Supply.*	*Totals.*
Superintendence,	$816.00	$997.26	$1,813.26
Operating Labor,	2,297.55	2,602.06	4,899.61
Supplies and Expenses,	1,779.98	2,508.46	4,288.44
Sanitation,	222.00	2,991.87	3,213.87
Purification Labor,	1,704.04	14,317.66	16,021.70
Purification Supplies and Expenses,	840.55	6,162.64	7,003.19
Maintenance of Structures and Equipment,	52.47	661.55	714.02
Maintenance of Purification System,	460.50	172.67	633.17
	$8,173.09	$30,414.17	
Total Source of Supply, as per Item IV.,			$38,587.26

Transmission Expense:—	*Ludlow Supply.*	*Little River Supply.*	*Totals.*
Provin Mountain Reservoir,			$3,250.54
Operating Labor,		$1,929.58	
Supplies and Expenses,		1,320.96	
Patrolling Transmission Mains,		92.24	92.24
Maintenance of Transmission Mains,			1,324.28
Ludlow Main No. 1, $253.71			
Ludlow Main No. 2, 662.94			
	$916.65		
Little River Main,		407.63	
Maintenance of Telephone System,		180.50	180.50
	$916.65	$3,930.91	
Total Transmission Expense, as per Item V.,			$4,847.56

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DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1917.

Operating Expenses.—Continued.

Distribution Expense:—

Street Division, Operating Labor,	$7,044.03
Meter and Fittings Division, Operating Labor,	3,828.84
Street Division, Supplies and Expenses,	1,254.02
Meters and Fittings Division, Supplies and Expenses,	683.75
Consumers Premises Expenses,	1,386.63
Maintenance of Mains,	3,494.15
Maintenance of Gates and Valves,	597.63
Maintenance of Services,	2,003.49
Maintenance of Hydrants,	2,059.23
Maintenance of Sprinkler Supply Pipes,	1.18
Maintenance of Fountains and Troughs,	3.54
Maintenance of Meters,	5,017.21
Maintenance of Distribution System Buildings, Fixtures and Grounds,	2,143.91
Maintenance of Foremen's House, 97 Colton St.,	6.85
Miscellaneous Distribution Expense,	8,485.59
Maintenance of Equipment,	35.58
Maintenance of Broadway Garage,	124.19
Maintenance of No. 32 Birnie Ave.,	71.37
Electrolysis Survey,	22.75
Total Distribution Expense, per Item VI.,	$38,263.94

Commercial Expense:—

Commercial Division, Salaries,	$6,822.92
Commercial Division, Supplies and Expenses,	360.23
Reading Meters, Salaries,	3,870.29
Reading Meters, Supplies and Expenses,	990.04
Undistributable Inspection Expense,	642.79
Total Commercial Expense, per Item VII.,	$12,686.27

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DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1917.

Operating Expenses.—Continued.

General Expense:—

Salaries of Officers and Assistants,	$16,277.30	
Salaries of General Office Clerks,	8,571.47	
Salaries of General Office Clerks, Special Work,	490.00	
Printing and Stationery,	1,193.76	
Miscellaneous General Office Supplies and Expenses,	4,680.79	
Maintenance of General Office Equipment,	58.98	
Legislative Expense,	.....	
Total General Expense, as per Item VIII.,		$31,272.30

Undistributed Expense:—

Injuries and Damages,	$142.69	
Utility Equipment Expense, Autos,	7,520.49	
Utility Equipment Expense, Teams,	1,679.55	
Stock and Stores Expense,	2,196.74	
Suburban Supplies Expense,	68.47	
Miscellaneous Expense,	138.31	
Inventory Adjustments, (*Credit*)	*2,688.16*	
Total Undistributed Expense, as per Item IX.,		$9,058.09

Public Safety Expense:—

Expense, account Public Safety, as per Item IX-A.,	$12,273.61

Depreciation Reserve Charge:—

Total, as per Item X.,	$36,000.00

Non-Operating Income:—

Sale of Products,—Wood, Sand, Hay, etc.,	$607.10	
Rent from Land, Buildings, etc.,	2,251.95	
Total Non-Operating Income, as per Item XI.,		$2,859.05

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DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1917.

Deductions from Gross Income.

Interest on Bonded Debt:—

On $125,000 Ludlow Supply 3½ per cent Bonds,	$4,375.00	
On $150,000 Ludlow Supply 4 per cent Bonds,	6,000.00	
Total, account Ludlow Supply Sinking Fund Bonds,		$10,375.00
On $410,000 Little River Supply 4 per cent Bonds, 1 month,	$1,366.67	
On $390,000 Little River Supply 4 per cent Bonds, 11 months,	14,300.00	
On $1,202,000 Little River Supply 3½ per cent Bonds, 1 month,	3,505.83	
On $1,148,000 Little River Supply 3½ per cent Bonds, 11 months,	36,831.67	
On $220,000 Little River Supply 4¼ per cent Bonds, 11 months,	8,570.83	
On $210,000 Little River Supply 4¼ per cent Bonds, 1 month,	743.75	
On $100,000 Little River Supply 3½ per cent Bonds, 11 months,	3,208.33	
On $95,000 Little River Supply 3½ per cent Bonds, 1 month,	277.08	
Total, account Little River Supply Serial Bonds,		68,804.16
		$79,179.16
Less Interest Received on Sinking Fund (account Ludlow Supply Bonds),		5,514.62
Total Interest on Bonded Debt Deducted, as per Item XII.,		$73,664.54

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BALANCE SHEET—NOVEMBER 30, 1917.

(***See Details of Items Following.***)

Assets.

XIII.	Plant, Property and Equipment November 30, 1913,	$5,123,775.00	
XIII-A.	Additions to Plant, Property and Equipment since November 30, 1913,	526,871.12	
			$5,650,646.12
XIV.	Stock and Stores,		129,291.44
XV.	Accounts Receivable,		68,084.97
XVI.	City Treasurer,		300.00
XVII.	Sinking Fund,		170,143.77
	Total Assets,		$6,018,466.30

Liabilities.

XVIII.	Bonded Debt,	$2,118,000.00
XIX.	City of Springfield, Equity,	3,310,478.43
XX.	Current Liabilities,	.....
XXI.	Accrued Interest,	25,991.66
XXII.	Depreciation Reserve (for distribution system),	37,398.60
XXIII.	Surplus,	526,597.61
	Total Liabilities,	$6,018,466.30

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DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1917.

Assets.

Plant, Property and Equipment, November 30, 1913* (including changes since that date):—			
In City.			
Original Purchase, including Franchise, Van Horn system, etc. (Balance),		$239,805.50	
Broadway Real Estate (garage),		9,020.45	
Van Horn Property, land (additional to original purchase),		4,419.00	
Colton Street Property:—			
Land,	$20,194.58		
Buildings,	63,853.64		
Equipment,	30,075.30		
		114,123.52	
Utility Equipment and Furniture,		18,857.89	
Ludlow Main No. 1 (portion in city),		230,659.32	
Ludlow Main No. 2 (portion in city),		135,874.47	
Distribution System, including mains, gates, hydrants, meters, services, etc. (also including Orchard street 42" main, $29,088.29),		1,385,263.82	
			$2,138,023.97
Outside City.			
Ludlow Transmission Main, No. 1,		$153,772.88	
Ludlow Transmission Main, No. 2,		188,924.82	
Ludlow Supply, Land, Buildings, Structures and Equipment,		632,887.14	
Little River Supply:—			
Diversion Dam, Tunnel and Road,		357,487.81	
Filtration System,		328,572.01	
Provin Mountain Reservoir,		186,036.02	
Borden Brook Reservoir,		215,388.95	
42" Pipe Line,		497,130.12	
54" Pipe Line,		16,278.41	
Connecticut River Crossing,		100,024.97	
Telephone Line,		4,098.72	
Sanitation during Construction,		7,369.08	
Power Diversion,		117,598.21	
Forestation,		1,870.03	
Land on Watershed, North Blandford, etc.,		36,036.28	
Miscellaneous Construction Expenses (engineering, legal, etc.),		120,806.96	
Expenditures, account possible supplies,		21,468.62	
			2,985,751.03
Total, as per Item XIII.,			$5,123,775.00*

*Book costs, subject to revision upon completion of appraisal and revised cost analysis.

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DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1917.

Assets.—Continued.

Additions to Plant, Property and Equipment since November 30, 1913:—

Additions to Plant, Property and Equipment in 1914,			$189,991.48
Additions to Plant, Property and Equipment in 1915,			71,125.28
Additions to Plant, Property and Equipment in 1916,			194,250.16
			$455,366.92
Additions to Plant, Property and Equipment in 1917:—			
Land:—			
Ludlow Supply,	$162.00		
Little River Supply,	4,976.74*		
Provin Mountain Reservoir,	367.65		
		$5,506.39	
Buildings, Fixtures and Grounds:—			
Little River Supply, Buildings:			
Borden Brook House,	$48.00		
Borden Brook Barn,	162.50		
Little River Purification Plant,	14.50		
Provin Mountain Reservoir, Structures and Equipment,	160.29		
Distribution System, Buildings, Fixtures and Grounds,	80.10		
		465.39	
Distribution System:—			
Mains,	$27,948.52		
Gates,	531.57		
Hydrants,	4,589.75		
Services,	208.53		
Meters,	1,888.24		
		35,166.61	
General Office Equipment,		518.30	
Shop Equipment and Tools,		316.64	
Utility Equipment,		1,686.90	
Miscellaneous Construction Expense (water rights),		17,500.00	
		$61,160.23	
Property Costs, account Public Safety,		10,343.97	
Total Additions to Plant, Property and Equipment, 1917,			71,504.20
Cost of Total Additions to Plant, Property and Equipment since November 30, 1913, as per Item XIII-A.,			$526,871.12

*Land expenditures, Little River supply=$24,976.74; less $20,000.00 received in settlement of claim against Berkshire Street Railway Co.:—net expenditures, as above=$4,976.74.

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DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1917.

Assets.—Continued.

Stock and Stores (as per Inventory):—

Cast-iron Pipe Stock,		$77,487.61	
Wrought-iron Pipe Stock,		10,763.36	
Meter Stock,		17,958.52	
Stores and Supplies,		1,363.89	
Small Tools Stock,		9,376.51	
Engineers' Supplies,		744.38	
Filter Supplies (Ludlow),		897.57	
		$118,591.84	
Little River Operating Supplies:—			
At Borden Brook Reservoir,	$1,323.01		
At North Blandford,	491.84		
At West Parish Filters,	3,501.25		
At West Parish Filters (laboratory),	5,254.93		
At Provin Mountain Reservoir,	128.57		
		10,699.60	
Total Stock and Stores, as per Item XIV.,			$129,291.44

Accounts Receivable:—

Consumers' Accounts Committed to City Collector,—			
Balance Uncollected November 30, 1916,		$63,869.85	
Committed to City Collector during Present Year (12 mos.),		504,826.41	
			$568,696.26
Collected by City Collector and paid to Treasurer during Present Year (12 mos.),		$499,567.76	
Abated to City Collector during Present Year,		1,600.12	
			501,167.88
Consumers' Accounts Committed to City Collector,— Balance Uncollected November 30, 1917 (includes December 1, 1917, commitment),			$67,528.38
Consumers' Accounts not yet Committed to City Collector,—Miscellaneous Sales Charges, etc.,			556.59
Total Accounts Receivable, as per Item XV.,			$68,084.97

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DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1917.

Assets.—Continued.

City Treasurer (see Cash Summary):—

Cash in hands of City Treasurer, Revenues (balance transferred to Sinking Fund),	.....	
Cash in hands of City Treasurer, Lombard Reservoir Lot Fund,	$300.00	
Total City Treasurer, as per Item XVI.,		$300.00

Sinking Fund (Account Ludlow Supply Bonded Debt):—

Balance in hands of Sinking Fund Commissioners, November 30, 1916,	$132,719.49	
Net surplus transferred from Water Works cash revenue of 1916,	15,502.88	
	$148,222.37	
Interest earnings and additions credited by Sinking Fund Commissioners during 1917 (net),	5,514.62	
Balance in hands of Sinking Fund Commissioners, as per their report of November 19, 1917,		$153,736.99
Net surplus from Water Works cash revenue of 1917,		16,406.78
Total Sinking Fund, as per Item XVII.,		$170,143.77

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DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1917.

Liabilities.

Bonded Debt:—

	Outstanding Nov. 30, 1916.	Paid During Present Year.	Outstanding Nov. 30, 1917.
Ludlow Supply 3½ per cent Sinking Fund Bonds, due October 1, 1920,	$125,000.00	.....	$125,000.00
Ludlow Supply 4 per cent Sinking Fund Bonds, due October 1, 1923,	150,000.00	.....	150,000.00
Little River Supply 4 per cent Serial Bonds,	410,000.00	$20,000.00	390,000.00
Little River Supply 3½ per cent Serial Bonds,	1,302,000.00	59,000.00	1,243,000.00
Little River Supply 4¼ per cent Serial Bonds,	220,000.00	10,000.00	210,000.00
	$2,207,000.00	$89,000.00	

Total Bonded Debt, as per Item XVIII., ... $2,118,000.00

City of Springfield Equity:—

Balance November 30, 1916,	$3,150,069.23	
Added during Present Year for new Construction paid from 1917 Revenue,	71,409.20	
Added during Present Year for Bonds paid from 1917 Revenue,	89,000.00	

Total City of Springfield Equity, as per Item XIX., ... $3,310,478.43

Current Liabilities:—

Total Current Liabilities, as per Item XX., ...

Accrued Interest:—

Accrued Interest on Ludlow Bonds,	$1,729.17
Accrued Interest on Little River Bonds,	24,262.49

Total Accrued Interest, as per Item XXI., ... $25,991.66

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DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1917.

Liabilities.—Continued.

Depreciation Reserve (for Distribution System):—

Aggregate of amounts credited to this account (and charged to Operating Expenses under "Depreciation Reserve Charge") for four years of 1914, 1915, 1916, 1917, at $36,000 per year,		$144,000.00
Less Cost of Distribution System Renewals charged to above "Reserve" account during the four years, as follows:—		
In 1914 (see 1915 report),	$72,147.60	
In 1915 (" " "),	20,243.19	
In 1916 (" 1916 "),	2,370.09	
In 1917 as follows:—		
Distribution Mains, $10,361.10		
Gates and Hydrants, 1,479.42		
	11,840.52	
		106,601.40
Total Depreciation Reserve, as per Item XXII.,		$37,398.60

Surplus Account:—

Balance November 30, 1916,		$495,056.32
Net Income for 1917 from Profit and Loss Account,		192,395.84
		$687,452.16
Delayed Losses in Prior Periods (charged off in 1917).	$445.35	
Transfer to City of Springfield Equity Account for new Construction paid from 1917 Revenue,	71,409.20	
Transfer to City of Springfield Equity Account for Bonds paid from 1917 Revenue,	89,000.00	
		160,854.55
Total Surplus Account, as per Item XXIII.,		$526,597.61

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CASH SUMMARY.—1917.

Items.	Water Works Revenue.	Settlement of Claim.	Lombard Reservoir Fund.	Total.
Receipts—1917.				
Collections Paid to City Treasurer by City Collector:—				
For Water Accounts,	$443,262.17			
For Misc. Sales,	56,305.59			
	$499,567.76	.....	.....	$499,567.76
For Refunds (sundry accounts),	530.49	.....	.....	530.49
For Settlement account claim against Berkshire Street Railway Co.,	.....	$20,000.00	.....	20,000.00
Total Receipts,	$500,098.25	$20,000.00	.....	$520,098.25
Balance in hands of City Treasurer, Nov. 30, 1916,	.....	.....	$300.00	300.00
Total Receipts and Balances,	$500,098.25	$20,000.00	$300.00	$520,398.25
Expenditures—1917.				
Total Bills Approved and Paid,	$175,187.68	$20,000.00	.....	$195,187.68
Total Pay Rolls Approved and Paid,	139,153.79	.....	.....	139,153.79
	$314,341.47			
Interest Paid on Ludlow Bonds,	10,375.00	.....	.....	10,375.00
Interest Paid on Little River Bonds,	69,975.00	.....	.....	69,975.00
Little River Serial Bonds Paid,	89,000.00	.....	.....	89,000.00
	$483,691.47			
Amount for Sinking Fund (account Ludlow Supply Bonds),	16,406.78	.....	.....	16,406.78
Total Expenditures,	$500,098.25	$20,000.00	.....	$520,098.25
Balance in hands of City Treasurer, Nov. 30, 1917,	.....	.....	$300.00	300.00
Total Expenditures and Balances,	$500,098.25	$20,000.00	$300.00	$520,398.25

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DIVISION OF WATER WORKS CASH EXPENDITURES.—1917.

From Revenue.			
Operating Expenses,		$146,989.03	
Less amounts charged in Operating Expenses,—not cash:—			
Water used by Water Works,	$84.20		
Rents of houses occupied by employees,	1,521.45	1,605.65	
			$145,383.38
Construction:—			
Land:—			
Little River Supply,	$24,976.74		
Ludlow Supply,	162.00		
Provin Mountain Reservoir	367.65		
	$25,506.39		
Less:			
Amount received account settlement of claim against Berkshire Street Railway Co.,	20,000.00		
Net, from Revenue,		$5,506.39	
Buildings, Fixtures and Grounds:—			
Little River Supply Buildings:			
Borden Brook House,	$48.00		
Borden Brook Barn,	162.50		
Little River Purification Plant,	14.50		
Provin Mountain Reservoir Structures and Equipment,	160.29		
Distribution Buildings, Fixtures and Grounds,	80.10		
		465.39	
Distribution System:—			
Mains,	$27,948.52		
Gates,	531.57		
Hydrants,	4,589.75		
Services,	208.53		
Meters,	1,888.24		
		35,166.61	
General Office Equipment,		518.30	
Shop Equipment and Tools,		316.64	
Utility Equipment,		1,686.90	
Miscellaneous Construction Expense (water rights),		17,500.00	
		$61,160.23	
Property Costs account Public Safety,		10,343.97	
		$71,504.20	
Less:			
Reversions deducted from Plant Account of Nov. 30, 1913,		95.00	
Net Total Construction paid from Revenue,			71,409.20
Forward,			$216,792.58

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DIVISION OF WATER WORKS CASH EXPENDITURES.—1917.

From Revenue.—Continued.

Forward,		$216,792.58
Renewals:—		
Street Work (Main Pipe),	$10,361.10	
Street Work (Gates and Hydrants),	1,479.42	
		11,840.52
Cost of Sales (services, meters, repairs, etc., chargeable to consumers),		54,068.90
Treasurer's Advance for 1917 petty cash expenses at office,		500.00
Sundry overpayments (amount deducted from operating expenses, when refund was made),		30.49
Increase in stock and stores November 30, 1917, over November 30, 1916,		31,108.98
Total Approved Bills and Pay Rolls paid (from Revenue),		$314,341.47
Interest Payments,	$80,350.00	
Bond Payments,	89,000.00	
Sinking Fund Payments,	16,406.78	
Total Bonded Debt Requirements paid,		185,756.78
Total Cash Payments from 1917 Revenue,		$500,098.25

From "Settlement of Claim" Proceeds.

Construction Expense (account land, Little River supply),	$20,000.00

APPENDICES.—1917.

Tabulations and statistics, including a summary in form as recommended by the New England Water Works Association, will be found in the appendices to this report.

Respectfully submitted,

ALFRED R. HATHAWAY,

Water Registrar.

BOARD OF WATER COMMISSIONERS, December 31, 1917.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

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SUPERINTENDENT'S REPORT

DECEMBER 31, 1917.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—I herewith submit the forty-fourth annual report of the Superintendent, being for the year ending November 30, 1917.

The amount of pipe laid, the number of gates and fire hydrants set, the amount of pipe discontinued, and the number of gates and fire hydrants taken out, are shown as follows:—

MAIN PIPE, GATES AND HYDRANTS ADDED—1917.

NUMBER.	Extensions.	Renewals.	Private.	TOTALS.
Feet of pipe laid, 1917,.....	17,643	4,706	2,797	25,146
Added,—account of previous years,.....	0	0	340	340
Total pipe added, 1917,..	17,643	4,706	3,137	25,486
Gates set, 1917,.....	151	29	60	240
Added,—account of previous years,.....	0	0	0	0
Total gates added, 1917,..	151	29	60	240
Fire hydrants set, 1917,....	49	32	0	81
Added,—account of previous years,.....	0	0	0	0
Total fire hydrants added, 1917,.....	49	32	0	81

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MAIN PIPE, GATES AND HYDRANTS TAKEN OUT OR ABANDONED—1917.

NUMBER.	TOTALS.
Feet of pipe,	4,862
Gates,	38
Fire hydrants,	33

There are now in use 226.92+ miles of supply and distribution mains, a net addition of 3.91— miles the past season.

We have laid 17,643 feet of main pipe at a cost of $27,948.52, including ordinary extensions with gates and connections.

As with the previous year, there has been very little replacing old pipe with new, the principal jobs being about 1,600 feet of 30″ main in the Fiberloid Company's yard relaid in Worcester street, and in Sherman street from State to Bay where a 4″ main was replaced by an 8″, with several new hydrants for better fire protection. In Bowdoin street from St. James avenue to Bowdoin terrace a 4″ main was replaced by an 8″, and in Sorrento street from Grenada terrace to Alderman street a 1½″ was replaced by a 6″. A short piece of 6″ main in Washington street at Commonwealth avenue was replaced by a 10″, in order that Washington street should all be one size, viz. 10″, as ordered by your Board. The total cost of these replacements, including the job at the Fiberloid Company, is $10,361.10. The above constitutes all of the renewal work done the past year with the exception of cutting in a gate here and there and replacing old and worn-out hydrants with new and larger ones wherever needed.

The removal of the 30″ main from the Fiberloid Company's yard was finally completed about the first of May, and its completion removed a load of anxiety from our minds. The work had proven vastly more difficult than could have been anticipated owing to the pipe having been covered to a much greater depth than was known by any of our officials, and the necessity of working in conjunction with the Fiberloid Company's contractors, so as not to delay the construction of their new buildings. The net cost of this job was $8,338.10, including the work done in 1916, and while it was much more than estimated, it is probably worth all it cost, as it removes the larger part of the pipe into the highway where it is much more available for maintenance and other uses.

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The labor question has been acute again all through the year, and it has been impossible to maintain a sufficient force to any more than keep up the system and do such short extensions as have been ordered. This accounts in part for the excessive cost of removing and relaying the 30″ main above mentioned, as it became necessary to employ a contractor's gang with foreman in order to complete the work at all. As above stated, the question of labor is still the uppermost factor in ours as in all municipal work, and it has been an utter impossibility to hire an additional man in our laborers' ranks during the past season. It was fortunate therefore that our work has been held down to the very smallest amount, and we have been able to get through the year with only the old stand-bys who have been with us year after year.

Extensions have not been as numerous as usual, and each request has been carefully examined before approval on account of the high cost of labor and material.

As cold weather approached, now and then a man has dropped out, and it is needless to remark that the loss of even one is felt quite seriously, and it is quite probable that we shall have to increase the pay of those we have in order to keep even them. Contractors are paying from twenty-five to fifty per cent more than we, and working ten hours a day with an extra allowance for all time over eight hours, and no man will work for *us* at *our rates* with no chance for overtime and its accompanying extras. Do not be surprised therefore if I should appear before you at any time with a request for higher wages for our laborers in order to keep men enough to take care of such accidents as are liable to happen, to say nothing of doing what new work comes in.

The department is fortunate in having a good stock of pipe on hand purchased before the price had advanced to its present standard, and there will be no necessity of purchasing any new pipe if we do no more extension work than we have the past season. The only material necessary will be a limited quantity of specials which can be purchased as needed from near-by foundries.

Eighty-one hydrants have been installed on lines of extensions and replacements, of which number 49 are additional and 32 are renewals.

Two hundred forty gates have been set, of which number 211 are additional and 29 renewals.

Four hundred twenty new taps have been made for service pipes, and 380 old ones have been replaced, making a total of 800; 57 old ones have been abandoned and cut off, leaving a net total increase of 363 for the year. This, plus last year's total of 15,248, makes the number of taps

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now connected to the system 15,611. Last year there was a total increase of 606 against 363 this year, showing an increase of 243 less than during 1916.

There have been 90 leaks in service pipes repaired at the expense of the department, of which 17 were at corporation cocks, 18 on lead pipe or connections, and 12 were at stops in the walk. The total cost of repairing these was $1,159.32, an average of $12.88 per leak. There were also two leaks repaired at the expense of owners of the service pipes, making a total of 92 service pipe leaks during the year. In general the cost of repairing the pavement for these small leaks is a large percentage of the total cost of repairing the leak.

There have been 42 leaks in main pipes during the year, an average of 0.19— per mile of main pipe in use. The following table shows the sizes of pipe in which these leaks occurred:—

Kind and Size of Pipe.	6″	8″	10″	12″	16″	24″	30″	Totals.
Cast-iron,.....	8	12	4	8	1	8	1	42

Twenty-seven of these leaks were at bad joints; 4 were from cracked pipe; 2 plugs blew out; 2 were caused by streets washing out from under the main during heavy showers; and 5 were at hydrant connections.

Hydrants have as usual been regularly inspected and kept in working condition. We have placed in commission during the year forty or more small 3″ hydrants with a single hose connection, for use by the street washing division of the Department of Streets and Engineering, for the purpose of eliminating the use of the large fire hydrants for such purpose, and it is hoped that this work may be continued the coming season and eventually eliminate entirely the use of fire hydrants for such work.

The gate system has been inspected and gates operated, besides keeping up with the street department work where gate boxes had to be raised or replaced in connection with new paving.

In addition to this, the gang has inspected and relocated upwards of one thousand stop boxes on service pipes.

Our service building and real estate connected therewith are in first class condition, and as stated above, our yard is well stocked with pipe. Of hydrants too we have a plentiful supply for our next season's work, and

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these also were purchased at at least 25% lower price than we could purchase them to-day.

METER WORK.

The meter work has followed practically the same routine as in former years, caring for and repairing all that have needed such attention, and setting new ones in newly built property. Approximately 2,800 meters have been repaired and tested and 630 new ones set, making a total of about 3,430 meters handled during the year.

Some progress has been made on the setting of detector meters on old fire protection services, about 20 having been set during the year. This work proceeds necessarily slowly, and has to be handled somewhat diplomatically, as practically every water taker makes objections to the setting of such a meter on their property. Nevertheless we are making some progress, as above stated, and it is hoped that we may do better the coming year, and possibly the whole work may be completed. There still remain about 77 services on which meters are to be installed, and of these 7 have been ordered, leaving about 70 to be accounted for.

STATISTICS.

In the appendices to this report will be found tables showing the pipe laid, gates and hydrants set, pipe, gates and hydrants taken out, etc.

Respectfully submitted,

ALFRED E. MARTIN,

Superintendent

BOARD OF WATER COMMISSIONERS, DECEMBER 31, 1917.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

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CHIEF ENGINEER'S REPORT

DECEMBER 31, 1917.

Board of Water Commissioners, Springfield, Mass.

GENTLEMEN:—Conditions requisite for securing the normal operation of the Springfield Water System have been unusually severe during the past year, due largely to a shortage of material and of labor brought about by the peculiar industrial and military demand. Men who have been on the work for many years have either been called or have volunteered to the service of the nation, and the demands in other lines have been such that it has been very difficult to maintain a full quota of the help needed at all times. In a city with as many lines of activity as there are in Springfield, especially at this time, the use of water has increased, thus making some of the problems more acute. The amount of water consumed has increased 673,600,000 gallons, or 18% over that taken in 1915.

Water for all uses has been supplied regularly throughout the year from the Little River system to all parts of the city of Springfield, to the towns of East Longmeadow, Agawam and a section of Wilbraham, and has been supplied at times of emergency to West Springfield and Chicopee, and a connection has been maintained for such service in case of need to Longmeadow. Two applications for additional water have been received during the year, the principal one of these being the emergency need of the city of Chicopee to which city was delivered in February, March, April and May a total of 25,953,026 gallons. The town of Westfield also requested water for the village of Mundale in the vicinity of the filtration plant. This latter connection, however, has not yet been made. In addition to the towns and cities supplied from the Little River system the town and village of Ludlow have been supplied through our own mains.

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and through the mains of the Ludlow Manufacturing Associates with water from the Ludlow system. The water in the Ludlow reservoir was unusually troublesome during the summer and the Ludlow filter plant usually operated throughout the summer could not be closed down until November 3d. The usual care has been continued for the sanitary protection of both the Little River and Ludlow supplies, and the quality of the water as delivered has been excellent throughout the year. It has been impossible to make many large pipe extensions into new territory in the city, which under ordinary conditions might be considered advisable.

Settlements have been effected in three of the principal suits which have been pending for some time. The Berkshire Street Railway Company paid the city $20,000 for the right of way across its property in North Blandford; the Westfield Marble & Sandstone Company, which was the only remaining plant using water for power on the Little River system below the city's diversion, in which no settlement had been made, were paid $17,500; and Waite Brothers were paid $17,000 for the destruction of their mill and water rights in North Blandford. Three parcels of land have also been acquired, one on Provin Mountain for the extension of the city's holdings at this point, one adjacent to the Ludlow reservoir, and the third on the main pipe line in the city of Springfield. A total of $4,846 was paid for the three parcels.

Under the directions of the United States Bureau of Standards, and in conjunction with other public service corporations and departments, the electrolitic conditions in the distribution system, which have been of much concern, are being cared for in the new construction now being built and contemplated by the Springfield Street Railway Company. It is too early to give any outline of results accomplished or to forecast much of the benefit to be derived, but an improvement in conditions is to be expected with the completion of the work now in progress.

A study of the valuation of the system has been carried on during the year. From the schedules thus prepared, a distribution of the land into divisions representing the various localities in which it is situated, has been accomplished and a brief summary of the acreage and values of such land may be of interest. The costs given are the actual amounts paid for the

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land and do not include any amounts where settlements have not been made. On the Little River system, land has been acquired along the streams at all points where future storage reservoirs could be built, and while the division of this land is in some cases made arbitrarily, it will, nevertheless, give a good idea of the various localities in which the water works have interests and in the manner in which the future requirements have been covered. Surveys have been made on these various sites to determine the quantity of water which could be impounded and the height of the dam necessary therefor, in order that the information will be available for future needs. Values given within the city are as given by the assessors.

	Acres.	Amount.
Ludlow Supply:—		
Reservoir land,	789	$40,997.20
Watershed land,	222	3,815.00
Land along canals,	46	2,133.50
Belchertown reservoir,	51	5,750.00
Jabish Brook,	253	15,561.19
	1,361	$68,256.89
Little River Supply:—		
Borden Brook reservoir,	703	$15,426.88
North Meadow, possible reservoir site,	858	17,400.00
Blair Pond, possible reservoir site,	680	41,700.00
Pebble Brook, possible reservoir site,	165	10,300.00
Cobble Mountain, possible reservoir site,	343	21,000.00
Watershed land,	859	34,839.00
Diversion dam,	234	1,325.00
Land in connection with Little River Supply,	30	2,000.00
West Parish Filters, including Sedimentation basin,	362	7,469.26
Provin Mountain reservoir,	122	5,526.07
Pipe Line in Westfield,	76	11,376.79
Pipe Line in West Springfield,	1	1,500.00
	4,433	$172,854.00
In Springfield:—		
Nine parcels,	69	$64,900.00

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In addition to the above large numbers of easements or rights to maintain works have also been acquired, which throughout the life of the structures are of much the same value as actual property owned. These are as follows:—

Ludlow Supply:—	
Land along main canals,.....	$8,271.06
Higher Brook canal,.....	654.59
Belchertown reservoir,.....	306.77
Ludlow Main No. 1, 24" Main Pipe,.....	1,575.00
Ludlow Main No. 2, 36" and 30" Main Pipe,.....	4,865.50
	$15,672.92
Little River Supply:—	
Pipe Line in Agawam, 42",.....	$1,425.55
Pipe Line in West Springfield, 42",.....	16,811.14
	$18,236.69

The land and rights listed are in the towns of Belchertown, Ludlow, Blandford, Russell, Granville, Westfield, Agawam, and West Springfield and in the city of Springfield.

An average for the entire year of over twelve million gallons per day has been delivered to the city from the Little River supply. The range, however, has been from an average of 13,230,000 gallons per day for the entire month of August, down to 11,300,000 gallons per day for the month of April. There has been no shortage of water in supplying these demands, but there has been difficulty in filter operation where material and labor are such a large factor. No restrictions have been placed on the use of water within the city but there were some periods when the capacity of the filter was taxed to its utmost to deliver the uniformly good water, which is as essential as sufficient quantity. With continued growth of the city at the present rate, it will not be long before additions to the filtration plant will become necessary.

The details of the operation of the West Parish filters showing the quality of the water, together with costs and other matters of interest, are given in an appendix of this report. The analyses made monthly by the State Department of Health are also given in this manner. A summary of the principal figures on the years' operation as to the use of water in the city and other towns connected follow. Population figures given are those calculated on the same growth as is indicated by the annual increase

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shown by census figures of 1910 and 1915. These are undoubtedly too low, but the method has been continued for the sake of uniformity.

Water supplied during 1917 from Little River supply:—		
East Longmeadow,	gallons,	9,914,000
Increase over 1916, 2,037,000, 25.9%		
Agawam,	"	38,767,000
Increase over 1916, 2,956,000, 8.3%		
West Springfield, emergency, 34 days,	"	12,846,000
Springfield, including West Wilbraham, village,	"	4,327,720,000
Increase over 1916, 207,060,000, 5%		
Chicopee, emergency, 61 days,	"	25,953,000
Ludlow, portions of three days,	"	320,000
Total water used from Little River system during 1917, in Metropolitan area,	"	4,415,520,000
Increase over 1916, 245,820,000, 5.9%		
Average use per day during 1917:—		
East Longmeadow,	"	27,200
Agawam,	"	106,200
Springfield, including West Wilbraham village,	"	11,856,800
Total Metropolitan District,	"	12,097,300
Per capita daily use during 1917:—		
East Longmeadow (population 2,094; 50% of town supplied, 1,047),	"	26
Agawam (population 4,977),	"	21
Springfield (population 108,589; Wilbraham, 500),	"	109
Water supplied Ludlow village (Ludlow Manufacturing Associates) during 1917 from Ludlow supply,	"	74,345,000
Other customers in Ludlow from Ludlow supply,	"	7,145,000
Average use per day, Ludlow,	"	223,300
Per capita daily use during 1917, Ludlow (population 6,773),	"	33
Maximum amount of water drawn in one day, Little River system, August 6,	"	15,050,000
Minimum amount of water drawn in one day, Little River system, April 29,	"	9,380,000

Borden Brook, the storage reservoir of the Little River system, was drawn upon for water to make up the deficiency of the supply on 89 days of the year, the total reduction of level amounting to 13.7 feet, which was more than in the year preceding, but not as much as has been drawn in previous years. The total depletion was 601,600,000 gallons as compared with 179,000,000 gallons in 1916 and 1,386,000,000 gallons in 1914.

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The following appendices give in detail the statistics of the year:—

XIII. Summary of Total Supply.
XIV. Daily Use of Water from Little River Supply,—All Towns and City.
XV. Daily Use of Water by East Longmeadow.
XVI. Daily Use of Water by Agawam.
XVII. Daily Use of Water by West Springfield.
XVIII. Emergency Use of Water by Chicopee.
XIX. Daily Use of Water by Springfield.
XX. Daily Use of Water by Ludlow Village (Ludlow Manufacturing Associates).
XXI. Operating Details of West Parish Filters.
XXII. Operating Costs of West Parish Filters.
XXIII. Rainfall Statistics for the Year.

Respectfully submitted,
ELBERT E. LOCHRIDGE,
Chief Engineer.

BOARD OF WATER COMMISSIONERS, DECEMBER 31, 1917.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

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APPENDIX TO

WATER COMMISSIONERS' REPORT

FOR 1917

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APPENDIX I.

SUMMARY OF STATISTICS

For the Year Ending November 30, 1917.

In form recommended by the New England Water Works Association.

MUNICIPAL WATER WORKS,

City of Springfield, Hampden County, Massachusetts.

GENERAL STATISTICS.

Population of Springfield by State census of 1915, . . . 102,971
Estimated population of Springfield for 1917, . . . 108,589
Dates of construction:—
Original works in city (*not now in system*), as follows:—
Small supply from springs (by private enterprise), . . 1843
Van Horn reservoir supply (by Springfield Aqueduct Co.), . 1848
Enlargement of above supply (by Springfield Aqueduct Co.), 1864
Sale of above to City, for $238,296 (by Springfield Aqueduct Co.), 1872
Works at Ludlow, Mass., ... 1873–1874–1875
Works at Belchertown, Mass. (auxiliary to Ludlow), 1890–1891
Additional main from Ludlow reservoir, . . . 1893–1894
New supply from Westfield Little River, . . . 1907–1910
By whom owned, ... City of Springfield
Source of supply used by Springfield District (filtered and metered):—
From Westfield Little River, storage capacity as follows:—

Borden brook reservoir (*impounding*), .	2,500,000,000 gallons
Intake reservoir (*diverting*), ...	40,600,000 gallons
Sedimentation basin (*before filtering*), . .	38,700,000 gallons
Provin mountain reservoir (*filtered*), . .	17,000,000 gallons
Total, ...	2,596,300,000 gallons

Source of supply used by adjoining town of Ludlow (filtered into standpipe during summer; unmetered):—
From impounding reservoirs in Ludlow and Belchertown (fed by natural streams, springs and surface water); storage capacity as follows:—

Total (*can be used by Springfield in emergency*), . . .	1,434,218,000 gallons

(Aggregate storage capacity, 4,030,518,000 gallons.)
Mode of supply, ... entirely by gravity

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FINANCIAL STATISTICS.

REVENUE (*credited*)—1917.

(In revised form recommended by Committee of N. E. W. W. A. in 1913.)

Balance brought forward:—			
a. From ordinary (maintenance) receipts,—(cash surplus transferred to sinking fund at end of previous year),			
Accounts receivable, Nov. 30, 1916,		$66,585 42	
b. From extraordinary receipts: Lombard Reservoir fund,		300 00	
c. Inventory of stock and stores on hand Nov. 30, 1916,		98,182 46	
Net total (forward from 1916),			$165,067 88
Earnings from Water Rates:—			
A. Fixture Rates (*within city*):—			
a. Domestic,			
b. Builders' use,	$628 01		
c. Unclassified,	4,814 75		
		$5,442 76	
B. Meter Rates (*within city*):—			
a. Domestic,	$317,780 94		
b. Commercial,	40,437 56		
c. Industrial,	57,391 02		
d. Institutional (includes churches),	7,729 47		
e. Builders' use,	1,087 26		
f. Unclassified,	11 34		
		424,437 59	
C. Public Uses (*not charged or collected, per city ordinance*):—			
a. Hydrants,	$45,725 00		
b. Fountains,	706 12		
c. Street washing and sprinkling,	1,800 00		
d. Public buildings,	14,858 27		
e. Sewer and street department, building purposes,	426 75		
f. Park uses,	2,208 14		
g. Public playgrounds,	152 00		
h. Flushing sewers,	6,050 00		
i. Incinerating plants,	97 73		
j. Municipal market,	9 05		
	$72,033 06		
Total from within city,		$429,880 35	

EXPENDITURES (*charged*)—1917.

Water Works Maintenance:—			
AA.	Operating expenses (includes all maintenance except renewal of distribution mains, gates and hydrants, and special expense a/c public safety),		$134,715 42
BB.	Special:—		
	Renewal work, distribution system,		11,840 52
	Special expense a/c public safety,		12,273 61
CC	Total maintenance and operating expenses charged 1917 (not including interest),		$158,829 55
DD.	Interest on bonds (amount paid), (CC+DD=$239,179.55)		80,350 00
EE.	Payment on bonds (for new supply) (old supply bonds payable from sinking fund),		89,000 00
FF.	Sinking fund (for Ludlow supply bonds),		16,406 78
Water Works Construction:—			
GG.	Extension of mains,	$27,948 52	
HH.	Extension of services (mostly paid for by consumers),	208 53	
II.	Extension of meters (mostly paid for by consumers),	1,888 24	
JJ.	Special:—		
	Hydrants—extension,	4,589 75	
	Gates—extension,	581 57	
	Land—account Little River supply,	24,976 74	
	" Provin Mountain reservoir,	367 65	
	" Ludlow supply,	162 00	
	Buildings, fixtures and grounds,	465 39	
	Office equipment,	518 30	
	Shop equipment,	316 64	
	Utility equipment,	1,686 90	
	Miscellaneous construction (water rights),	17,500 00	
	Property costs a/c public safety,	10,343 97	
		$91,504 20	
	Less: Material sold a/c plant, property and equipment Nov. 1, 1918,	95 00	
KK.	Net aggregate construction charged, 1917,		91,409 20

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D.	Other Miscellaneous Earnings:—			
	a. Water used outside city:—			
	Fixture rates,	$150 00		
	Meter rates,	16,075 81		
			16,225 81	
	Total water rates collectible,		$446,106 16	
	b. Water used by water works (included in its operating expenses),		84 20	
	Total operating revenues,			446,190 36
E.	General appropriations,			
F.	From municipal departments,			
G.	From tax levy,			
H.	From bonds,			
I.	From other sources:—			
	a. Non-operating income (sale of products, rentals, etc.),			2,859 05
	b. Settlement of claim against Berkshire Street Railway Co.,			20,000 00
J	Total credited (including balance forward),			$634,117 29

LL.	Unclassified expenses:—			
	Delayed losses in prior periods charged off in 1917,			445 35
	Net total *charges*, 1917,			$436,440 88
MM.	Balance, Nov. 30, 1917:—			
	Inventory of stock and stores on hand,		$129,291 44	
	Cash in hands of City Treasurer:—			
	Lombard Reservoir fund,		300 00	
	Accounts Receivable:—			
	Committed to City Collector,—uncollected (includes Dec. 1st bills),	$67,528 38		
	Not yet committed to City Collector,	556 59		
			68,084 97	
				197,676 41
J.	Total (in balance with revenue),			$634,117 29

Disposition of balance. Carried forward.

O.	Net cost of works to date,			$5,650,646 12
P.	Bonded debt at date,	Ludlow supply,	$275,000 00	
		Little River supply,	1,843,000 00	
				$2,118,000 00
Q.	Value of sinking fund at date (Ludlow supply bonds),			$170,143 77
R.	Average rate of interest,	Ludlow supply bonds,		3.77%
		Little River supply bonds,		3.64%

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STATISTICS OF CONSUMPTION OF WATER.

(In revised form recommended by Committee of N. E. W. W. A. in 1913.)

1.	Year for which report is made,.....		1917
2.	Population—(Springfield district):—		
	a. Total—(Springfield, 108,589, and Wilbraham, 500) (estimated),.....		109,089
	b. On line of pipe (estimated),.....		107,736
	c. Supplied (estimated),.....		107,335
3.	Total number of active taps,.....		15,180
4.	Average number of persons per active tap (2*a*÷3),		7.18+
5.	Total number of metered taps,.....		14,876
6.	Per cent of active taps metered (5÷3),.....		97.99+
7.	Total water consumption is determined by Venturi meter on supply main at Provin Mountain reservoir.		
8.	Water supplied from Little river system during *mean year* covered by consumers' meters:—		

(Recorded by consumers' meters, as follows):—

	In Springfield:—	*Gallons.*	*Per Cent of Total (8-n).*
a.	For domestic uses,.....	1,598,156,000	36.63
b.	For commercial uses,.....	419,486,600	9.62
c.	For industrial uses,.....	807,772,900	18.51
d.	For institutional uses,.....	80,824,000	1.85
e.	For builders' uses,.....	2,245,600	.05
f.	For charitable uses (free),.....	14,288,500	.33
g.	For public uses (uncollectible) (23% of such municipal services metered),.....	216,336,500	4.96
h.	Total in Springfield,.....	3,139,110,100	71.95
i.	Total in Wilbraham,.....	5,846,000	.13
j.	Total in Springfield district,.....	3,144,956,100	72.08
k.	Total outside Springfield district,.....	85,861,900	1.97
l.	Total recorded by consumers' meters,.....	3,230,818,000	74.05
m.	For unmetered sales, unmetered private fire supplies, unmetered public uses, and lost and unaccounted-for (*balance*),.....	1,132,162,000	25.95
n.	Total water supplied from Little river system during *mean year* covered by consumers' meters,.....	4,362,980,000	100.00

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9. Water supplied to Springfield district, 1917:—

a. Total for calendar year,	4,327,720,000 gallons
b. Percentage metered (8*j*÷9*a*),	72.67+per cent
c. Total average per day (9*a*÷365 days),	11,856,800 gallons
d. Average per day per active tap (9*c*÷3),	781 gallons
e. Average per day per consumer (9*c*÷2*c*),	101 gallons
f. Average per day per capita (9*c*÷2*a*),	109 gallons

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1. Kind of pipe used:—wrought-iron cement-lined (formerly used by private aqueduct company and by city);—wrought-iron—for small and temporary mains,—and cast-iron and steel (used by city at present).
2. Sizes;—from one inch to fifty-four inches.
3. Extended during year (added to pipe table, including all changes, etc.), ... 25,486 feet
4. Discontinued during year (deducted from pipe tables, including all changes, etc.), . . 4,862 feet
5. Total now in use (city, Indian Orchard, Wilbraham, and Ludlow), ... 226.92+miles
6. Cost of repairs per mile (including big breaks), $4.69+
7. Number of leaks per mile (total leaks=42), . 0.19—
8. Length of pipes less than 4 inches in diameter, . 7.90—miles
9. Number of hydrants added during year (public =48, and private=0) (net), ... 48
10. Number of hydrants (public=1,854, and private =130), now in use (city, Indian Orchard, and Wilbraham), ... 1,984
11. Number of hydrants in Ludlow (public=19, private=108), now in use, ... 127
12. Number of stop gates added during year (public and private) (net), ... 202
13. Number of stop gates now in use, ... 5,863
14. Number of gates smaller than 4-inch, . . . 793
15. Number of blow-offs (air valves), ... 107
16. Range of pressure on mains:—

	Maximum	Average
a. Main street level, ...	147 lbs.	140 lbs.
b. Hill section level, ...	87 lbs.	80 lbs.

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SERVICES.

17. Kind of pipe used:—lead (formerly used by private aqueduct company);—cement-lined wrought-iron, and tarred wrought-iron (formerly used by city);—galvanized wrought-iron, lead-lined wrought-iron, and cast-iron (used by city at present).
18. Sizes from ½ to 10 inches.
19. Extended during year (in feet).
20. Discontinued during year (in feet).
21. Total now in use (in miles).

NOTE.—Services paid for entirely by the consumers, and no special statistics kept of them.

22. Number of services added during year (net) (to December 1st), 363
23. Total services December 1, 1917, ... 15,611
    a. Active services, ... 15,180
    b. Metered services, ... 14,876
24. Average length of service.
25. Average cost of service.

(See note under 19, 20, 21.)

26. Number of meters added (net to December 1st), . 312
27. Total meters December 1, 1917, ... 14,909
28. Percentage of active services metered, December 1, 1917, ... 97.99+per cent
29. Percentage of earnings from metered water (to December 1st), ... 98.74+per cent
30. Number of motors and elevators added and discontinued (net), ... +1
    a. Motors added, 0; discontinued, 1; . . . = —1
    b. Elevators added, 8; discontinued, 6; . . = +2
31. Number of motors and elevators now in use, . . 407
    a. Motors, ... 67
    b. Elevators, ... 340

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APPENDIX II.

COMPARATIVE STATEMENT OF WATER RECEIPTS SINCE 1884.

(On annual basis of twelve months.)

Year.	Water Rates Charged—Gross Earnings. (*During the year, only.*)		Water Rates Collected. (*Including balances forward.*)	
	Totals.	Gain or Loss.	Totals.	Gain or Loss.
1885	$93,421 60	+$5,976 56	$90,848 05	+$5,262 34
1886	100,537 77	+ 7,116 17	97,298 78	+ 6,450 73
1887	108,140 94	+ 7,603 17	105,451 52	+ 8,152 74
1888	115,146 35	+ 7,005 41	112,581 21	+ 7,129 69
1889	126,220 72	+11,074 37	122,541 52	+ 9,960 31
1890*	133,553 28	+ 7,332 56	129,913 27	+ 7,371 75
1891	140,604 85	+ 7,051 57	136,985 11	+ 7,071 84
1892	150,515 67	+ 9,910 82	146,349 09	+ 9,363 98
1893	164,894 65	+14,378 98	160,936 78	+14,587 69
1894	167,376 11	+ 2,481 46	162,769 71	+ 1,832 93
1895	182,357 49	+14,981 38	178,421 15	+15,651 44
1896	194,069 28	+11,711 79	189,373 75	+10,952 60
1897	196,818 72	+ 2,749 44	192,132 58	+ 2,758 83
1898	209,183 12	+12,364 40	201,710 66	+ 9,578 08
1899	220,673 14	+11,490 02	213,061 24	+11,350 58
1900	225,798 96	+ 5,125 82	218,741 57	+ 5,680 33
1901*	233,227 98	+ 7,429 02	218,815 05	+ 73 48
1902*	231,594 98	— 1,633 00	223,903 08	+ 5,088 03
1903	245,358 59	+13,763 61	238,673 13	+14,970 05
1904	249,779 77	+ 4,421 18	244,767 77	+ 6,094 64
1905	259,133 06	+ 9,353 29	252,747 50	+ 7,979 73
1906*	263,746 17	+ 4,613 11	260,186 99	+ 7,439 49
1907*	267,263 78	+ 3,517 61	255,109 17	— 5,077 82
1908*	293,896 28	+26,632 50	291,108 15	+35,998 98
1909	302,230 17	+ 8,333 89	298,449 48	+ 7,341 33
1910	327,333 58	+25,103 41	322,845 84	+24,396 36
1911	344,591 64	+17,258 06	341,057 40	+18,211 56
1912*	341,515 25	— 3,076 39	333,607 69	— 7,449 71
1913	375,558 61	+34,043 36	359,274 81	+25,667 12
1914	397,823 84	+22,265 23	395,094 09	+35,819 28
1915*	393,394 68	— 4,429 16	395,046 41	— 47 68
1916	413,958 91	+20,564 23	411,423 13	+16,376 72
1917	446,889 60	+32,930 69	443,262 17	+31,839 04

*See explanatory notes in annual reports for years indicated.

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APPENDIX III.

SERVICE TAPS AND SUPPLY AND DISTRIBUTION MAINS SINCE 1884.

Year.	Service Taps.		Distribution Mains.		Supply and Distribution Mains in Use. (Miles.)
	Total Number.	Net Increase.	Extensions. (Feet.)	Cost of Extensions.	
1885	4,237	224	10,014	$11,235 33	75 01
1886	4,519	282	18,993	14,158 71	78 65
1887	4,819	300	17,244	14,600 36	81 55
1888	5,147	328	13,877	14,038 56	84 97
1889	5,497	350	29,059	26,418 94	91 11
1890	5,770	273	9,962	7,833 06	92 28
1891	6,181	411	14,927	10,396 00	94 86
1892	6,633	452	24,853	16,253 21	98 63
1893	7,000	367	25,079	17,090 71	102 97
1894	7,482	482	20,280	13,491 16	117 21*
1895	7,900	418	32,368	25,302 47	123 65
1896	8,298	398	23,521	21,018 62	127 80
1897	8,721	423	39,108	22,349 41	134 71
1898	9,070	349	28,810	16,042 36	140 08
1899	9,456	386	20,851	10,069 22	143 21
1900	9,764	308	9,880	6,362 20	144 69
1901	10,034	270	8,668	5,174 62	146 22
1902	10,221	187	5,353	3,060 71	147 34
1903	10,471	250	16,425	13,147 42	150 44
1904	10,641	170	9,767	6,163 18	152 20
1905	10,946	305	20,309	17,290 22	154 67
1906	11,175	229	17,027	24,054 14	156 84
1907	11,385	210	20,099	114,117 98**	160 42
1908	11,706	321	19,047	72,635 91**	161 85
1909	12,134	428	30,177	111,153 39**	174 87*
1910	12,545	411	45,520	152,570 23**	182 74
1911	12,985	440	31,816	43,044 79**	188 87
1912	13,407	422	31,159	39,747 99	195 11
1913	13,692†	473†	54,043	74,272 30	205 31
1914	14,126	434	39,634	64,429 03	212 69
1915	14,642	516	34,244	43,009 57‡	218 51
1916	15,248	606	22,425	27,858 26	223 02
1917	15,611	363	17,643	27,948 52	226 92

* The total of 117.21 miles of main and distribution pipe at end of 1894 includes 10.86 miles of "Ludlow Supply Main No. 2," laid in 1893 and 1894; and the total of 174.87 miles at end of 1909 includes 13.29 miles of "Little River Supply" pipe, laid in 1908-1909-1910.

** Amounts include *extension-cost* of "Circuit" mains, as follows:—1907 = $33,911.77; 1908 = $36,776.96; 1909 = $91,900.00; 1910 = $121,039.43; 1911 = $4,693.65; leaving following balances for ordinary and improvement extensions:—1907 = $20,206.21; 1908 = $45,858.95; 1909 = $19,253.30; 1910 = $31,530.80; 1911 = $38,351.14.

† Revised by actual count for total, and elimination of errors of earlier years due to evident oversight of taps abandoned.

‡ Corrected.

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APPENDIX IV.

CLASSIFICATION OF CONSUMERS, DECEMBER 1, 1917.

(Not including Ludlow Manufacturing Associates' private system in Ludlow Village.)

Classification.	Total, End of Year 1917.	Total, Beginning of Year 1917.	Increase or Decrease 1917.
Domestic:—			
Apartment Blocks,	854	806	+48
Dwellings (single),	6,155	5,889	+266
Dwellings (double),	329	332	—3
Dwellings (tenement),	6,699	6,504	+195
Tenements,	31,325	29,873	+1,452
Commercial:—			
Banks,	12	12	....
Business Blocks,	442	434	+8
Garages (public),	37	29	+8
Gasolene Stations,	2	....	+2
Greenhouses,	10	10	....
Hotels,	19	19	....
Restaurants,	97	93	+4
Saloons,	64	64	....
Stables (public),	17	17	....
Stores,	1,613	1,544	+69
Theaters,	5	5	....
Industrial:—			
Breweries,	3	3	....
Foundries,	18	18	....
Gas Works,	1	1	....
Laundries (public),	54	54	....
Manufactories,	129	127	+2
Railroads,	4	4	....
Institutional:—			
Cemeteries,	6	6	....
Charitable Institutions,	12	12	....
Churches,	57	58	—1
Colleges,	2	2	....
Court House,	1	1	....
Hospitals,	6	6	....
Jails,	1	1	....
Libraries,	4	4	....
Post Offices,	4	4	....
Schools (private),	11	12	—1
State Militia Armory,	1	1	....
Truant School,	1	1	....
United States Armory,	1	1	....
United States Barracks,	1	....	+1
Municipal (*Public Use*):—			
Drinking Fountains and Tanks,	26	27	—1
Fire Department Stations,	13	13	....
Fire Hydrants,	1,873	1,825	+48
Fountains,	19	19	....
Parks,	23	23	....
Playgrounds,	9	9	....
Police Department Stations,	2	2	....
Reduction Plant,	2	1	+1
Sanitary,	1	1	....
Schools,	41	41	....
Street Sprinkling Hydrants,	184	173	+11
Fixtures:—			
Bath Tubs,	27,308	25,726	+1,582
Elevators,	340	338	+2
Meters,	67	68	—1
Urinals,	928	839	+89
Water Closets,	41,793	39,838	+1,955

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APPENDIX V.

CLASSIFICATION OF SERVICES, DECEMBER 1, 1917.

CLASSIFICATION.	Sizes of Services.												Total, End of Year 1917.	Total, Beginning of Year 1917.	Increase or Decrease, 1917.
	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	6"	8"	10"			
Revenue Services.															
Within City.															
Domestic Consumers,	8	96	9,178	3,209	333	88	4	2	9	2	..	..	12,929	12,637	+292
Domestic and Commercial Consumers,	1	5	165	229	69	40	6	7	9	3	..	..	534	531	+3
Commercial Consumers,	1	5	162	160	64	79	8	14	118	16	..	..	627	582	+45
Churches,	..	1	19	17	6	16	2	..	1	..	..	..	62	61	+1
Total—called "Commercial,"	10	107	9,524	3,615	472	223	20	23	137	21	..	..	14,152	13,811	+341
Industrial Consumers,	..	3	46	60	26	57	15	19	99	86	11	3	425	443	—18
Institutional Consumers,	..	..	11	22	7	14	4	4	10	4	1	..	77	76	+1
Public Uses,	..	1	4	2	1	..	..	..	..	1	..	..	9	8	+1
Total within City,	10	111	9,585	3,699	506	294	39	46	246	112	12	3	14,663	14,338	+325
Outside City.															
Commercial Consumers, Little River Transmission Main,	..	..	6	..	..	..	..	..	..	..	..	..	6	6	..
Com'l Consumers, Ludlow,	..	5	95	29	1	2	..	..	5	..	..	..	137	135	+2
Com'l Consumers, Wilbraham,	..	..	36	26	2	5	..	..	..	..	..	..	69	69	..
Industrial Consumers, Ludlow Mfg. Co.'s System,	..	..	..	..	..	..	..	..	..	..	1	1	2	2	..
Wholesale Service, Agawam,	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, Chicopee,	..	..	..	..	..	..	..	..	..	..	1	..	1	..	+1
Wholesale Service, East Longmeadow,	..	..	..	..	..	..	..	..	..	1	..	..	1	1	..
Wholesale Service, Longmeadow	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, West Springfield,	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Total outside City,	..	5	137	55	3	7	..	..	5	1	5	1	219	216	+3
Total Revenue Services,	10	116	9,722	3,754	509	301	39	46	251	113	17	4	14,882	14,554	+328

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CLASSIFICATION OF SERVICES, DECEMBER 1, 1917—(CONCLUDED).

CLASSIFICATION.	SIZES OF SERVICES.												Total, End of Year 1917.	Total, Beginning of Year 1917.	Increase or Decrease, 1917.
	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	6"	8"	10"			
NON-REVENUE SERVICES.															
Private Use.															
Domestic Consumers,.....	..	..	4	..	..	..	..	..	..	..	..	..	4	4	..
Domestic and Commercial Consumers,.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Commercial Consumers,.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Churches,.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total—called "Commercial,"	..	..	4	..	..	..	..	..	..	..	..	..	4	4	..
Institutional Consumers,.....	..	..	1	2	1	..	..	..	..	..	..	..	4	4	..
Total Private Use in City...	..	..	5	2	1	..	..	..	..	..	..	..	8	8	..
Commercial Consumers, Ludlow,.....	..	..	1	..	..	..	..	..	11	..	..	..	12	12	..
Total Private Use,.....	..	..	6	2	1	..	..	..	11	..	..	..	20	20	..
Public (Municipal) Use.															
Buildings and Departments,...	..	9	34	18	24	16	3	11	30	8	1	..	154	152	+2
Drinking Fountains and Tanks,	..	3	11	5	..	2	..	..	..	..	..	..	21	22	—1
Street Watering Hydrants:—															
Standpipes—cart sprinklers,.	..	..	..	..	..	..	113	..	..	..	..	..	113	142	—29
Special hydts,—st. washing,.	..	..	..	..	..	..	41	..	..	..	..	..	41	1	+40
Total Public Use,*.....	..	12	45	23	24	18	157	11	30	8	1	..	329	317	+12
Total Non-Revenue Services,.	..	12	51	25	25	18	157	11	41	8	1	..	349	337	+12
Total Classified Services,....	10	128	9,773	3,779	534	319	196	57	292	121	18	4	15,231	14,891	+340
Total Unclassified Services,.	1	9	254	62	15	19	..	3	12	4	1	..	380	357	+23
Total Services,*.....	11	137	10,027	3,841	549	338	196	60	304	125	19	4	15,611	15,248	+363

*Fire Hydrants, Flush Gates for sewer system, and Track Hydrants for street watering, not included under "Services" in records.

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APPENDIX VI.

CLASSIFICATION OF METERS, DECEMBER 1, 1917.

CLASSIFICATION.	Sizes of Meters.										Total, End of Year 1917.	Total, Beginning of Year 1917.	Increase or Decrease, 1917.
	½" or ⅝"	¾"	1"	1¼"	1½"	2"	3"	4"	6"	8"			
Revenue Meters.													
Within City.													
Domestic Consumers,	8,857	3,314	591	36	68	14	4	1	1	..	12,886	12,620	+266
Domestic and Commercial Consumers,	182	206	132	5	30	24	8	4	1	..	592	599	—7
Commercial Consumers,	131	190	125	7	40	79	33	34	9	..	648	617	+31
Churches,	22	16	11	1	8	1	..	1	..	..	60	61	—1
Total—called "Commercial,"	9,192	3,726	859	49	146	118	45	40	11	..	14,186	13,897	+289
Industrial Consumers,	30	40	55	3	36	68	41	58	35	9	375	376	—1
Institutional Consumers,	10	21	13	2	6	9	7	5	2	..	75	77	—2
Public Uses,	5	2	..	..	..	1	..	1	..	..	9	9	..
Total within City,	9,237	3,789	927	54	188	196	93	104	48	9	14,645	14,359	+286
Outside City.													
Commercial Consumers, Little River Transmission Main,	6	..	..	..	..	..	..	..	..	..	6	6	..
Commercial Consumers, Ludlow	108	15	4	..	..	2	..	..	..	..	129	126	+3
Commercial Consumers, Wilbraham,	29	5	..	2	5	..	..	..	..	..	41	40	+1
Industrial Consumers, Ludlow Mfg. Co.'s System,	..	..	..	..	..	..	..	..	..	1	1	1	..
Wholesale Service, Agawam,	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, Chicopee,	..	..	..	..	..	..	..	..	1	..	1	..	+1
Wholesale Service, East Longmeadow,	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, Longmeadow	..	..	..	..	..	..	..	..	..	..	..	..	..
Wholesale Service, West Springfield,	..	..	..	..	..	..	..	..	..	1	1	1	..
Total outside City,	143	20	4	2	5	2	..	..	3	2	181	176	+5
Total Revenue Meters,	9,380	3,809	931	56	193	198	93	104	51	11	14,826	14,535	+291

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CLASSIFICATION OF METERS, DECEMBER 1, 1917—(Concluded).

CLASSIFICATION.	Sizes of Meters.										Total, End of Year 1917.	Total, Beginning of Year 1917.	Increase or Decrease, 1917.
	½" or ⅝"	¾"	1"	1¼"	1½"	2"	3"	4"	6"	8"			
Non-Revenue Meters. *Private Use.*													
Domestic Consumers,	4	..	..	..	..	..	..	..	..	..	4	4	..
Domestic and Commercial Consumers,	..	..	..	..	..	..	..	..	..	..	..	..	..
Commercial Consumers,	..	..	..	..	..	..	..	..	..	..	..	..	..
Churches,	..	..	..	..	..	..	..	..	..	..	..	..	..
Total—called "Commercial,"	4	..	..	..	..	..	..	..	..	..	4	4	..
Industrial Consumers,	..	..	..	..	..	..	..	..	..	..	..	..	..
Institutional Consumers,	..	1	3	..	1	..	..	..	..	..	5	4	+1
Total Private Use,	4	1	3	..	1	..	..	..	..	..	9	8	+1
Public (Municipal) Use.													
Buildings and Departments,	8	3	7	2	3	14	21	9	3	1	71	53	+18
Drinking Fountains and Tanks,	1	1	1	..	..	..	..	..	..	..	3	1	+2
Street Watering Hydrants,	..	..	..	..	..	..	..	..	..	..	..	..	..
Total Public Use,	9	4	8	2	3	14	21	9	3	1	74	54	+20
Total Non-Revenue Meters,	13	5	11	2	4	14	21	9	3	1	83	62	+21
Total Revenue and Non-Revenue Meters,	9,393	3,814	942	58	197	212	114	113	54	12	14,909	14,597	+312
Owned by Consumers,	9,388	3,808	936	57	195	196	96	105	51	11	14,843	14,548	+295
Owned by Water Department,	5	6	6	1	2	16	18	8	3	1	66	49	+17

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APPENDIX VII.

SUMMARY OF MAIN PIPE LAID AND TAKEN OUT IN 1917.

(Including Changes and Corrections.)

Divisions.	1″	1¼″	1½″	2″	4″	6″	8″	10″	12″	16″	30″	Totals
PIPE LAID												
Owned by Private Parties												
Wrought-iron, ...	275	760	231	1,798	..	..	..	..	..	..	..	3,064
Owned by City												
Wrought-iron, ...	89	..	13	488	..	..	..	..	..	..	..	590
Cast-iron, ...	..	..	..	..	576	1,367	13,527	1,165	2,584	829	1,784	21,832
Total Pipe Added, ...	364	760	244	2,286	576	1,367	13,527	1,165	2,584	829	1,784	25,486
PIPE TAKEN OUT OR ABANDONED												
Wrought-iron, ...	231	246	332	..	..	..	..	..	..	..	..	809
Cast-iron, ...	..	..	..	..	2,046	429	..	..	..	..	1,578	4,053
Total Pipe Deducted, ...	231	246	332	..	2,046	429	..	..	..	..	1,578	4,862
Net Pipe Added, ...	+133	+514	−88	+2,286	−1,470	+938	+13,527	+1,165	+2,584	+829	+206	+20,624

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APPENDIX VIII.

CHANGES IN TOTALS OF MAIN PIPE DURING 1917.

SUPPLY MAINS—(FEET).

Size in Inches.	In Use First of Year.	Laid During Year.	Abandoned and Taken Up During Year.	Net Change for Year.	In Use Close of Year.
16	61	....	....	....	61
20	561	....	....	....	561
24	24,942	....	....	....	24,942
30	17,216	....	....	....	17,216
36	14,002	....	....	....	14,002
42	61,976	....	....	....	61,976
54	1,851	....	....	....	1,851
Total	120,609	....	....	....	120,609

DISTRIBUTION MAINS—(FEET).

Size in Inches.	In Use First of Year.	Laid During Year.	Abandoned and Taken Up During Year.	Net Change for Year.	In Use Close of Year.
1	4,415	364	231	+133	4,548
1¼	9,632	760	246	+514	10,146
1½	6,861	244	332	—88	6,773
2	17,501	2,286	....	+2,286	19,787
3	437	....	....	....	437
4	66,083	576	2,046	—1,470	64,613
6	449,267	1,367	429	+938	450,205
8	237,958	13,527	....	+13,527	251,485
10	43,346	1,165	....	+1,165	44,511
12	69,475	2,584	....	+2,584	72,059
16	51,030	829	....	+829	51,859
20	7,903	....	....	....	7,903
24	37,962	....	....	....	37,962
30	35,250	1,784	1,578	+206	35,456
36	17,723	....	....	....	17,723
42	2,070	....	....	....	2,070
Total	1,056,913*	25,486	4,862	+20,624	1,077,537*

* Includes parallel lines for services only, as follows:—
4″=18,816 feet.
6″=10,741 feet.

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APPENDIX IX.

SUMMARY OF SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 1, 1917.

SIZES.	Wrought-Iron.	Cement-Lined.	Cast-Iron.	Steel. L=*Lock-bar.* R=*Riveted.*	TOTALS.
1-inch.....	4,548	....	....	....	4,548
1¼-inch...	10,146	....	....	....	10,146
1½-inch...	6,773	....	....	....	6,773
2-inch.....	19,787	....	....	....	19,787
3-inch.....	437	....	....	....	437
4-inch.....	....	....	45,797	....	45,797
4-inch*....	....	....	18,816*	....	18,816*
6-inch.....	....	....	439,464	....	439,464
6-inch*....	....	....	10,741*	....	10,741*
8-inch.....	....	....	251,485	....	251,485
10-inch....	....	....	44,511	....	44,511
12-inch....	....	....	72,059	....	72,059
16-inch....	....	....	51,920	....	51,920
20-inch....	....	....	8,464	....	8,464
24-inch....	....	29,365	33,475	R 64	62,904
30-inch....	....	....	50,509	L 2,163	52,672
36-inch....	....	....	31,407	R 318	31,725
42-inch....	....	....	2,254	L 61,792	64,046
54-inch....	....	....	....	L 1,851	1,851
Feet.....	41,691	29,365	1,060,902	66,188	1,198,146
Miles....	7.90—	5.56+	.200.93—	12.54—	226.92+

*For services only, not for fire protection.

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APPENDIX X.

SUMMARY OF GATES AND FIRE HYDRANTS SET AND TAKEN OUT IN 1917.

(Including Changes and Corrections.)

Divisions.	1″	1¼″	1½″	2″	2½″	3″	4″	5″	6″	8″	10″	12″	16″	30″	Totals.
Gates Set, 1917, (Including Those Added),	1	3	..	44	1	..	20	..	97	63	5	4	1	1	240
Gates Taken Out, 1917, (Including Those Abandoned),	2	1	1	3	..	2	15	..	10	4	..	..	..	..	38
Net Gates Added, 1917,	—1	+2	—1	+41	+1	—2	+5	..	+87	+59	+5	+4	+1	+1	+202
Total Gates, Dec. 1, 1916,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,661
Total Gates, Dec. 1, 1917,	..	..		..	..	..	..	..	..	..	..	..	..	..	5,863
Public Hydrants Set, 1917,	..	..	..	..	..	..	..	2	79	..	..	..	..	..	81
Public Hydrants Taken Out, 1917,	..	..	..	..	..	..	18	..	15	..	..	..	..	..	33
Net Public Hydrants Set, 1917,	..	..		..	..	..	−18	+2	+64	..	..	..	..	..	+48
Private Hydrants Set, 1917,	..	..	.	..	..	..	..	..	..	..	..	..	.	..	..
Total Hydrants, Dec. 1, 1916,	..	..	..	..	..		..			..	..	..	..		1,936
Total Hydrants, Dec. 1, 1917, (Not including Ludlow).	..	..	..	..		.	.	.	..	.	..	..	.	..	1,984

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APPENDIX XI.

CLASSIFICATION OF FIRE HYDRANTS

CONNECTED TO WATER WORKS SYSTEM, DECEMBER 1, 1917.

Divisions and Sizes	Springfield (City)	Indian Orchard	Wilbraham	Total (not including Ludlow)	Ludlow	Totals
Public:						
8 inch.....	77	..	..	77	..	77
6 inch.....	1,318	48	4	1,370	..	1,370
5 inch.....	19	51	1	71	..	71
4 inch.....	317	19	..	336	19	355
Total public..	1,731	118	5	1,854	19	1,873
Private:						
8 inch.....	..	..	..	..	..	..
6 inch.....	27*	23	..	50*	92	142*
5 inch.....	..	4	..	4	..	4
4 inch.....	70	6	..	76	16	92
Total private.	97*	33	..	130*	108	238*
Total public and private hydrants ..	1,828*	151	5	1,984*	127	2,111*

* Includes one hydrant on Little River supply main, Westfield.

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APPENDIX XII.

CLASSIFICATION OF STREET WATERING HYDRANTS, WATERING TANKS AND DRINKING FOUNTAINS

CONNECTED TO WATER WORKS SYSTEM, DECEMBER 1, 1917.

Divisions	Springfield (City)	Indian Orchard	Total
Crane Hydrants For Cart Sprinklers			
Owned by Water Works,.....	59	8	67
Owned by Street Department,.....	43	3	46
Total Crane Hydrants (standpipes),.....	102	11	113
Track Hydrants For Car Sprinklers			
Owned by Street Department, ...	30	....	30
Special Hydrants For Street-Washing			
Owned by Street Department,.....	41	....	41
Total Street Watering Hydrants,.	173	11	184
Watering Tanks (for animals),.....	10	1	11
Drinking Fountains (for persons),..	13	2	15
Total Watering Tanks and Drinking Fountains,.....	23	3	26

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APPENDIX XIII.

SUMMARY OF TOTAL SUPPLY, 1917. SPRINGFIELD, MASS.

(For *Mean Year* Covered by Consumers' Meters.)

Little River Supply.

	Gallons.	Gallons.
Total Supply delivered from Provin Mountain Reservoir (as per Venturi meter),		4,362,980,000
Consumption recorded by Consumers' Meters, as follows:—		
In Springfield:—		
Private Consumers,	2,908,485,100	
Private Consumers (free) (charities),	14,288,500	
Public Uses (uncollectible) (23% of such municipal services metered),	216,336,500	
Total in Springfield,	3,139,110,100	
In Wilbraham:—		
Private Consumers,	5,846,000	
Total within Springfield District,		3,144,956,100
For Agawam:—		
Wholesale Service,	38,444,100	
For East Longmeadow:—		
Wholesale Service,	9,735,800	
For Chicopee:—		
Emergency Service,	25,953,000	
For West Springfield:—		
Emergency Service,	11,409,000	
For Ludlow:—		
Emergency Service,	320,000	
Total outside Springfield District,		85,861,900
Total Consumption recorded by Consumers' Meters, Little River Supply,		3,230,818,000
Unmetered Sales, Unmetered Private Fire Supplies, Unmetered Public Uses, and Lost and Unaccounted-for (25.95%),		1,132,162,000

Ludlow Supply.

	Gallons.	Gallons.
Consumption recorded by Consumers' Meters, as follows:—		
For Ludlow Manufacturing Associates:—		
Wholesale Service for Village System,	79,050,000	
For other Consumers in Ludlow:—		
Private Consumers and Town Uses (except fire hydrants, etc.),	7,145,000	
Total Consumption recorded by Consumers' Meters, Ludlow Supply,		86,195,000

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APPENDIX XIV.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

TOTAL DRAUGHT BY METROPOLITAN DISTRICT, COMPRISING SPRINGFIELD, CHICOPEE,* WILBRAHAM, EAST LONGMEADOW, AGAWAM, LONGMEADOW* AND WEST SPRINGFIELD.*

METERED AT PROVIN MOUNTAIN. IN MILLION GALLONS.

1917	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	10.20	11.66	12.35	10.06	11.52	12.00	10.87	14.65	11.15	13.26	12.40	10.61
2	12.07	12.50	11.90	12.00	12.68	10.32	13.80	14.45	10.60	13.00	13.10	10.26
3	12.10	11.50	10.40	11.72	11.85	10.10	11.80	14.27	11.00	13.25	11.32	12.90
4	12.50	10.71	9.75	11.76	11.90	12.90	10.52	14.00	13.05	13.21	9.78	12.62
5	11.71	12.08	12.05	11.84	10.48	12.05	13.12	11.52	13.45	12.40	12.72	12.96
6	10.40	12.35	11.60	10.95	9.94	12.30	12.90	15.05	13.35	11.58	12.05	12.36
7	10.05	12.25	11.87	10.58	12.30	12.00	11.36	13.84	12.80	11.73	12.48	12.51
8	12.35	12.50	12.02	9.47	11.60	12.20	10.58	13.60	11.41	12.49	12.50	10.80
9	11.90	12.07	12.25	12.60	12.15	10.85	13.00	13.89	10.97	12.89	12.58	10.49
10	12.20	11.65	10.55	12.69	11.72	9.70	12.30	13.60	13.42	13.18	10.50	13.55
11	12.15	11.42	10.24	11.65	11.84	11.83	12.14	12.51	13.10	12.31	9.84	13.59
12	12.55	13.85	12.60	11.65	9.96	12.67	12.12	10.95	13.90	10.92	12.55	13.19
13	10.37	13.30	12.10	11.65	9.50	12.05	12.55	14.50	11.35	10.90	12.45	13.30
14	10.30	13.03	12.09	10.30	12.57	12.15	11.51	14.15	13.20	10.58	12.50	12.13
15	12.21	13.05	12.03	9.55	12.10	12.16	10.98	13.19	11.90	13.51	12.32	10.96
16	12.15	12.70	12.15	12.25	12.00	10.56	13.05	13.48	10.95	13.40	12.15	11.30
17	11.95	11.40	10.62	12.15	12.18	9.97	12.25	13.00	13.32	13.60	10.60	13.03
18	11.77	10.78	10.33	11.70	12.05	13.18	12.82	12.50	13.07	13.50	10.20	12.48
19	12.22	13.25	12.63	10.35	10.52	13.01	12.60	11.42	13.52	13.25	12.75	12.97
20	10.31	12.82	12.31	11.65	10.14	13.25	12.95	14.00	13.65	11.76	12.65	12.49
21	9.60	12.43	12.89	10.20	12.65	13.10	11.73	13.22	12.60	11.00	12.40	12.13
22	12.00	10.91	12.87	9.88	11.76	13.63	11.18	13.03	11.45	13.50	12.02	10.90
23	11.80	12.51	12.12	12.43	12.45	11.42	14.43	12.57	10.60	13.20	12.05	10.70
24	11.51	10.95	10.77	12.00	12.95	10.40	13.51	13.20	13.17	12.95	10.30	11.47
25	11.53	10.60	10.13	12.68	12.86	13.94	13.68	11.95	13.10	12.80	9.95	9.62
26	11.75	13.00	12.95	12.05	10.90	13.65	13.72	10.70	13.46	12.50	12.55	12.37
27	10.41	12.60	12.33	11.55	10.07	13.75	13.75	13.63	13.45	11.24	12.65	12.75
28	9.75	12.53	12.50	10.30	12.70	14.25	12.32	13.35	13.00	11.05	11.65	12.83
29	11.98	.....	12.31	9.38	12.32	13.50	10.85	12.95	11.65	13.10	10.00	12.89
30	11.91	.....	12.20	12.04	10.00	12.66	14.44	13.64	11.05	14.15	11.75	13.38
31	11.89	.....	10.90	.....	12.03	.....	14.25	13.29	.....	14.11	.....	14.90
Total	355.59	340.37	363.81	339.10	359.69	365.55	387.08	410.10	372.69	390.32	352.76	378.46
Aver.	11.47	12.16	11.74	11.30	11.60	12.19	12.49	13.23	12.42	12.59	11.76	12.21

*Emergency connections only.

N. B.—Total includes 320,000 gallons supplied to Ludlow Mfg. Associates, as follows:—Aug. 5=170,000 gallons; Nov. 9=110,000 gallons; Nov. 20=40,000 gallons.

Total amount for 1917=4,415,520,000 gallons. Daily average=12,097,300 gallons.

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APPENDIX XV.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

Water Used by Town of East Longmeadow.

Metered at Springfield—E. Longmeadow Line. In Gallons.

1917	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	*24,234	24,700	22,000	*24,500	23,400	26,800	*29,150	50,100	*29,233	29,900	21,700	*27,200
2	23,000	23,800	21,300	20,400	21,000	*30,450	26,300	41,000	*29,233	29,900	19,600	*27,200
3	22,600	*27,150	*23,750	23,600	21,900	*30,450	*32,450	36,700	*29,234	30,000	*26,500	26,500
4	23,400	*27,150	*23,750	24,900	22,100	29,200	*32,450	*36,900	31,600	27,800	*26,500	26,000
5	22,000	*24,100	23,900	21,900	*24,350	26,800	31,200	*36,900	24,300	27,900	21,700	27,000
6	*24,700	*24,100	23,800	22,700	*24,350	26,000	33,700	40,800	28,200	*33,350	23,800	25,000
7	*24,700	20,800	21,000	*24,000	26,200	23,000	*34,650	35,300	27,800	*33,350	22,300	25,900
8	22,100	22,600	21,400	*24,000	26,700	30,800	*34,650	32,200	*29,750	23,500	26,600	*25,450
9	21,200	22,500	21,900	23,600	28,200	*27,400	28,200	37,800	*29,750	29,100	23,400	*25,450
10	20,300	*29,650	*23,550	23,600	20,200	*27,400	30,600	40,000	30,000	25,900	*29,300	27,100
11	21,400	*29,650	*23,550	23,800	22,800	23,000	21,000	*30,100	30,300	*27,700	*29,300	25,600
12	25,500	31,000	23,400	21,200	*25,150	38,400	28,200	*30,100	28,800	*27,700	24,000	33,100
13	24,600	27,800	23,200	21,600	*25,150	61,400	30,800	43,000	30,000	*28,600	23,900	*23,450
14	24,600	24,400	23,700	*24,900	25,200	28,700	*28,550	44,700	27,300	*28,600	22,800	*23,450
15	20,100	23,600	21,700	*24,900	23,800	28,500	*28,550	27,500	*31,400	20,200	26,600	*23,450
16	21,400	23,000	23,500	24,300	24,000	*31,150	31,000	37,600	*31,400	42,400	25,800	*23,450
17	24,700	*24,100	*25,200	24,100	28,300	*31,150	29,600	29,100	29,700	22,100	*24,950	24,200
18	22,300	*24,100	*25,200	*22,800	25,300	19,000	27,700	*33,150	35,500	23,700	*24,950	26,000
19	20,600	25,400	24,600	*22,800	*31,150	27,700	28,700	*33,150	29,700	34,600	23,900	23,200
20	*23,550	26,800	20,900	20,900	*31,150	35,600	31,100	35,600	27,600	*28,300	24,500	25,200
21	*23,550	*23,350	22,600	*26,250	30,700	30,200	*30,500	31,100	27,600	*28,300	28,600	24,900
22	22,700	*23,350	21,700	*26,250	21,400	24,600	*30,500	*30,800	*27,800	24,600	23,100	*25,550
23	23,900	25,600	22,100	24,400	25,900	*32,700	31,200	*30,800	*27,800	27,100	32,700	*25,550
24	20,600	*23,700	*24,550	24,600	26,600	*32,700	34,200	*30,700	28,000	26,500	*25,350	*22,950
25	20,100	*23,700	*24,550	23,900	26,300	33,100	30,200	*33,850	29,800	26,100	*25,350	*22,950
26	21,400	22,800	25,600	21,300	*29,100	25,900	29,100	*33,850	32,700	36,900	20,900	27,500
27	*23,800	23,500	22,700	23,500	*29,100	28,200	34,800	34,200	29,200	*25,800	32,600	27,600
28	*23,800	25,800	22,500	*24,000	22,000	29,000	*38,500	26,900	27,600	*25,800	*23,900	24,300
29	21,400	.....	21,900	*24,000	*28,450	28,300	*38,500	31,200	*30,700	27,900	*23,900	*32,100
30	22,500	.....	23,000	22,800	*28,450	*29,150	41,200	26,700	*30,700	35,600	42,100	*32,100
31	20,900	.....	*24,500	.....	24,400	.....	43,300	34,600	.....	22,400	.....	*35,900
Total	701,634	698,200	717,000	705,500	792,800	896,750	975,550	1,076,400	882,700	881,600	770,600	815,300
Aver.	22,633	24,935	23,129	23,516	25,574	29,892	31,469	34,723	29,423	28,439	25,687	26,300

*Daily averages computed from readings taken two or more days apart.

Total amount for 1917=9,914,084 gallons. Daily average=27,162 gallons.

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APPENDIX XVI.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

WATER USED BY TOWN OF AGAWAM.

METERED ON 42" LINE—FEEDING HILLS. IN GALLONS.

1917	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	*72,080	*79,500	*73,723	*82,350	*89,977	102,200	*131,550	195,400	*136,300	105,300	*102,910	*85,990
2	*72,080	*79,500	*73,723	*62,950	*89,978	*100,900	157,800	185,000	*136,300	98,500	*102,910	*85,990
3	*72,080	*79,500	*73,724	*62,950	*89,978	*100,900	128,400	175,900	140,600	101,600	*102,911	*85,990
4	*72,080	*79,500	*73,723	74,000	*89,978	137,200	145,900	*184,300	126,000	91,100	*102,910	*85,990
5	*72,080	*79,500	*73,723	*62,700	*89,978	141,600	168,500	*184,300	126,100	89,300	*102,910	*85,990
6	*72,080	*79,500	*73,724	*62,700	*89,977	104,700	143,900	191,700	118,500	*134,900	*102,911	*85,990
7	*72,080	*79,500	*73,723	*68,550	*89,978	95,000	*144,500	164,900	151,000	*134,900	*102,910	*85,990
8	*72,080	*79,500	*73,723	*68,550	*89,978	128,300	*144,500	159,600	*132,500	101,500	*102,910	*85,990
9	*72,080	*79,500	*73,724	*78,881	*89,978	*120,350	133,600	170,800	*132,500	96,300	*102,911	*85,990
10	*72,080	*79,500	*73,723	*78,882	*89,978	*120,350	135,900	183,700	216,000	106,300	*102,910	*76,616
11	*72,080	*79,500	*73,723	*78,882	*89,977	93,800	137,600	*179,600	176,100	88,300	*102,910	*76,616
12	*72,080	*79,500	*73,724	*78,882	*89,978	85,600	145,900	*179,600	127,800	89,500	*102,911	*76,616
13	*72,080	*79,500	*73,723	*78,882	*89,978	108,200	147,000	164,200	160,200	*136,050	*102,910	*76,616
14	*72,080	*79,500	*73,723	*78,882	*89,978	114,300	*129,500	193,400	143,300	*136,050	*82,910	*76,617
15	*72,080	*79,500	*73,724	*78,881	*89,978	112,900	*129,500	124,500	*100,100	136,500	*82,911	*76,617
16	*72,080	*79,500	*73,723	*78,882	*89,978	*136,650	129,300	128,400	*100,100	189,000	*82,910	*76,617
17	*72,080	*79,500	*73,723	*78,882	*89,977	*136,650	127,200	93,700	191,300	89,200	*82,910	*76,617
18	*72,080	*79,500	*73,724	*78,882	*89,978	166,900	129,700	*199,800	163,400	96,500	*82,911	*76,617
19	*72,080	*79,500	*73,723	*78,882	*89,978	*138,150	147,900	*199,800	161,000	*94,833	*82,910	*76,617
20	*72,080	*79,500	*73,723	*78,882	*89,978	*138,150	137,800	188,600	113,100	*94,833	*82,910	*76,617
21	*72,080	*79,500	*73,724	*78,882	*89,978	147,600	*158,000	179,200	141,700	*94,834	*82,911	*76,617
22	*72,080	*79,500	*73,723	*78,882	*89,977	154,800	*158,000	174,700	*145,850	112,700	*82,910	*128,175
23	*72,080	*79,500	*73,723	*78,881	*89,978	*150,900	182,700	131,800	*145,850	*90,200	*82,910	*128,175
24	*72,080	*79,500	*73,724	*78,882	*89,978	*150,900	156,300	135,000	148,900	*90,200	*102,911	*128,175
25	*72,080	*79,500	*73,723	*78,882	*89,978	176,100	179,600	*176,900	128,100	110,500	*102,910	*128,175
26	*72,080	*79,500	*73,723	*78,882	*89,978	157,900	167,900	*176,900	143,500	115,600	*102,910	39,400
27	*72,080	*79,500	*73,724	*78,882	*89,977	138,600	181,700	184,200	65,900	*95,200	*102,911	67,300
28	*72,080	84,700	*73,723	*78,882	108,000	136,500	*184,250	251,500	147,700	*95,200	*102,910	45,300
29	*72,080	.....	*73,723	*78,882	93,900	121,300	*184,250	116,400	*127,950	*110,950	*102,911	85,200
30	*72,080	.....	*73,724	*78,881	102,500	*131,550	177,400	60,300	*127,950	*110,950	*85,990	161,500
31	*79,500	.....	*82,350	.....	102,300	.....	190,900	116,700	.....	113,800	.....	165,600
Total	2,241,900	2,231,200	2,294,050	2,280,150	2,836,100	3,848,950	4,716,950	5,150,600	4,175,600	3,350,600	2,870,390	2,770,310
Aver.	72,320	79,690	74,002	76,005	91,487	128,298	152,160	166,148	139,187	108,084	95,680	89,365

*Daily averages computed from readings taken two or more days apart.

Total amount for 1917 = 38,766,800 gallons. Daily average = 106,210 gallons.

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APPENDIX XVII.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

WATER USED BY TOWN OF WEST SPRINGFIELD.

METERED AT KING'S HIGHWAY. IN GALLONS.

1917	June	July	Aug.	Sept.	Oct.
1	.....	*408,249	.....	.....	.....
2	.....	*408,250	.....	.....	.....
3	.....	.....	.....	.....	.....
4	.....	.....	240,405	.....	.....
5	.....	.....	384,648	.....	.....
6	.....	.....	16,028	.....	.....
7	.....	.....	.....	.....	.....
8	.....	.....	.....	.....	.....
9	.....	.....	.....	.....	.....
10	.....	.....	.....	.....	.....
11	.....	.....	.....	.....	.....
12	.....	.....	.....	.....	.....
13	.....	.....	.....	.....	.....
14	.....	.....	.....	.....	.....
15	.....	.....	.....	.....	*400,000
16	.....	.....	.....	.....	*400,000
17	.....	.....	.....	.....	*400,000
18	.....	.....	.....	.....	*400,000
19	.....	.....	.....	.....	*400,000
20	.....	.....	.....	.....	*400,000
21	.....	*215,218	.....	.....	*400,000
22	.....	*430,438	.....	.....	*400,000
23	.....	*430,438	.....	.....	*400,000
24	.....	*430,438	.....	.....	*400,000
25	116,696	*430,438	.....	.....	*400,000
26	.....	*430,438	.....	.....	*400,000
27	.....	*430,488	.....	.....	*400,000
28	.....	*430,438	.....	.....	*400,000
29	*408,249	*430,438	.....	.....	*400,000
30	*408,249	.....	.....	.....	*400,000
31	.....	.....	.....	.....	*396,052
Total	933,194	4,475,221	641,081	.....	6,796,052
Aver.	311,065	406,838	213,694	.....	400,000

*Daily averages computed from readings taken two or more days apart.
Total amount for 1917 (34 days) = 12,845,548 gallons.

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APPENDIX XVIII.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

WATER USED BY CITY OF CHICOPEE.

METERED ON FARNSWORTH AND NORTH MAIN STS. IN GALLONS.

1917	Feb.	Mar.	Apr.	May
1	.....	387,543	406,940	.....
2	.....	.....	394,228	.....
3	.....	.....	342,608	.....
4	*425,397	.....	473,517	.....
5	*425,397	.....	*355,699	773,337
6	*425,397	.....	*355,699	.....
7	*425,397	.....	*405,288	.....
8	*425,397	450,970	*405,289	.....
9	*425,397	347,201	*693,781	.....
10	*425,397	*422,687	*693,781	.....
11	*425,397	*422,686	.....	.....
12	*425,397	420,405	.....	.....
13	*425,398	382,883	.....	.....
14	*425,397	398,712	.....	.....
15	*425,397	399,460	.....	.....
16	*425,397	447,335	.....	.....
17	*425,397	*376,644	.....	.....
18	*425,397	*376,644	.....	.....
19	*425,397	448,831	.....	.....
20	*425,397	*442,473	.....	.....
21	*425,397	*442,472	.....	.....
22	*425,397	406,940	.....	.....
23	*425,397	388,239	.....	.....
24	*425,397	*369,164	.....	.....
25	*425,397	*369,164	.....	.....
26	*425,397	422,649	.....	.....
27	*425,397	393,475	.....	.....
28	*425,398	400,208	.....	.....
29	.....	*376,270	.....	.....
30	.....	*376,270	.....	.....
31	.....	398,712	.....	.....
Total	10,634,927	10,018,087	4,526,725	773,337
Aver.	425,397	400,722	452,678	773,337

*Daily averages computed from readings taken two or more days apart.
Total amount for 1917 (61 days) = 25,953,026 gallons.

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APPENDIX XIX.

LITTLE RIVER WATER SUPPLY. SPRINGFIELD, MASS.

Water Used in City of Springfield.

Metered at Provin Mountain. In Million Gallons.

1917	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	10.10	11.58	11.86	9.56	11.41	11.87	10.30	14.40	10.98	13.13	12.27	10.50
2	11.98	12.40	11.81	11.53	12.57	10.19	13.20	14.22	10.44	12.87	12.98	10.15
3	12.01	11.39	10.30	11.30	11.74	9.97	11.64	14.05	10.83	13.12	11.19	12.78
4	12.40	10.17	9.65	11.19	11.79	12.73	10.35	13.54	12.90	13.09	9.64	12.51
5	11.62	11.51	11.95	11.40	9.60	11.88	12.92	10.75	13.30	12.28	12.60	12.87
6	10.30	11.81	11.49	10.51	9.83	12.18	12.73	14.80	13.20	11.42	11.93	12.35
7	9.95	11.73	11.78	10.08	12.18	11.89	11.18	13.63	12.62	11.57	12.36	12.40
8	12.26	11.97	11.48	8.97	11.48	12.04	10.40	13.41	11.25	12.37	12.36	10.69
9	11.81	11.55	11.80	11.81	12.03	10.70	12.84	13.68	10.81	12.76	12.35	10.38
10	12.11	11.11	10.04	11.90	11.61	9.55	12.13	13.38	13.17	13.04	10.37	13.44
11	12.06	10.89	9.73	11.55	11.72	11.72	11.98	12.30	12.90	12.19	9.71	13.49
12	12.45	13.31	12.08	11.55	9.85	12.54	11.95	10.74	13.74	10.80	12.42	13.08
13	10.27	12.77	11.68	11.55	9.38	11.88	12.37	14.30	11.16	10.73	12.33	13.20
14	10.20	12.50	11.60	10.19	12.45	12.01	11.35	13.91	13.03	10.41	12.40	12.03
15	12.12	12.53	11.53	9.44	11.99	12.02	10.82	13.04	11.77	12.95	12.21	10.86
16	12.06	12.17	11.61	12.14	11.89	10.39	12.89	13.31	10.82	12.77	13.03	11.20
17	11.85	10.87	10.14	12.04	12.06	9.80	12.09	12.88	13.10	13.09	10.49	12.93
18	11.68	10.25	9.84	11.60	11.93	12.99	12.66	12.27	12.87	12.98	10.09	12.38
19	12.13	12.72	12.08	10.26	10.40	12.84	12.42	11.19	13.33	12.73	12.65	12.87
20	10.21	12.28	11.78	11.55	10.02	13.07	12.78	13.77	13.51	11.24	12.49	12.39
21	9.50	11.91	12.35	10.09	12.53	12.92	11.33	13.01	12.43	10.48	12.29	12.03
22	11.90	10.38	12.37	9.77	11.65	13.46	10.56	12.83	11.27	12.97	11.92	10.74
23	11.70	11.98	11.64	12.32	12.33	11.24	13.79	12.41	10.43	12.68	11.94	10.54
24	11.42	10.42	10.29	11.89	12.83	10.22	12.89	13.03	12.99	12.43	10.16	11.32
25	11.44	10.08	9.66	12.58	12.74	13.62	13.04	11.74	12.94	12.26	9.82	9.47
26	11.66	12.47	12.43	11.95	10.78	13.46	13.09	10.49	13.29	11.94	12.43	12.30
27	10.31	12.07	11.84	11.45	9.95	13.58	13.10	13.42	13.35	10.71	12.52	12.66
28	9.65	11.99	12.01	10.20	12.57	14.08	11.67	13.07	12.82	10.53	11.52	12.76
29	11.89	.....	11.85	9.28	12.20	12.94	10.20	12.80	11.49	12.56	9.88	12.77
30	11.82	.....	11.72	11.94	9.87	12.09	14.22	13.55	10.89	13.61	11.62	13.19
31	11.79	.....	10.39	.....	11.91	.....	14.02	13.14	.....	13.58	.....	14.69
Total	352.65	326.81	350.78	331.59	355.29	359.87	376.91	403.06	367.63	379.29	348.97	374.87
Aver.	11.38	11.67	11.32	11.05	11.46	12.00	12.16	13.00	12.25	12.23	11.63	12.09

N. B.—About eighty houses in Wilbraham supplied with Little River water.
Total amount for 1917=4,327,720,000 gallons. Daily average=11,856,800 gallons.

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APPENDIX XX.

LUDLOW RESERVOIR SUPPLY, SPRINGFIELD, MASS.

WATER USED BY LUDLOW MANUFACTURING ASSOCIATES.

METERED AT LUDLOW MAIN No. 1. IN GALLONS.

1917	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	*166,000	196,000	167,000	*167,000	*185,750	219,000	162,000	256,000	*173,500	130,000	243,000	*156,000
2	240,000	229,000	179,000	193,000	186,000	*174,500	209,000	205,000	*173,500	220,000	285,000	*156,000
3	258,000	*191,500	*145,000	190,000	197,000	*174,500	*217,500	235,000	154,000	238,000	*192,000	190,000
4	262,000	*191,500	*145,000	185,000	186,000	*246,333	*217,500	*173,500	251,000	224,000	*192,000	205,000
5	262,000	209,000	188,000	193,000	*180,000	*246,333	381,000	*173,500	225,000	248,000	193,000	185,000
6	*199,500	217,000	203,000	195,000	*180,000	*246,334	429,000	245,000	205,000	*174,000	202,000	194,000
7	*199,500	210,000	167,000	*144,500	214,000	165,000	*235,500	211,000	238,000	*174,000	199,000	192,000
8	223,000	215,000	177,000	*144,500	*181,000	179,000	*235,500	202,000	*161,500	208,000	222,000	*140,000
9	258,000	222,000	*142,000	192,000	*181,000	*181,500	215,000	199,000	*161,500	195,000	205,000	*140,000
10	218,000	*204,500	*142,000	190,000	*210,500	*181,500	211,000	204,000	224,000	219,000	*162,500	‡205,000
11	251,000	*204,500	187,000	188,000	*210,500	202,000	209,000	*165,000	215,000	‡226,000	*162,500	‡173,000
12	248,000	223,000	183,000	254,000	*188,000	206,000	196,000	*165,000	214,000	‡166,000	186,000	196,000
13	*214,500	267,000	280,000	206,000	*188,000	221,000	211,000	206,000	215,000	‡147,000	181,000	195,000
14	*214,500	250,000	181,000	*159,000	*188,000	215,000	*143,500	223,000	224,000	‡162,000	174,000	194,000
15	228,000	255,000	179,000	*159,000	*188,000	226,000	*143,500	204,000	*293,500	250,000	179,000	*154,000
16	254,000	244,000	190,000	266,000	*188,000	*163,500	195,000	216,000	*293,500	261,000	194,000	*154,000
17	*189,000	*202,500	*144,000	196,000	†188,000	*163,500	166,000	210,000	217,000	214,000	*136,000	172,000
18	*189,000	*202,500	*144,000	*169,500	†188,000	213,000	222,000	*337,000	274,000	247,000	*136,000	163,000
19	*189,000	223,000	176,000	*169,500	†188,000	231,000	208,000	*337,000	*238,000	231,000	167,000	161,000
20	*189,000	211,000	186,000	202,000	†188,000	228,000	209,000	215,000	*292,000	*184,000	186,000	183,000
21	*189,000	223,000	179,000	*166,500	181,000	337,000	*162,500	224,000	*221,000	*184,000	192,000	181,000
22	*189,000	210,000	188,000	*166,500	201,000	264,000	*162,500	228,000	*167,000	219,000	182,000	*205,000
23	*189,000	238,000	196,000	191,000	206,000	*222,000	213,000	229,000	*167,000	244,000	185,000	*205,000
24	227,000	*156,500	*161,000	200,000	203,000	*222,000	209,000	256,000	220,000	238,000	*142,000	*188,000
25	230,000	*156,500	*161,000	216,000	219,000	313,000	210,000	*181,500	220,000	246,000	*142,000	*188,000
26	132,000	202,000	195,000	191,000	*169,000	234,000	215,000	*181,500	222,000	205,000	180,000	199,000
27	*233,500	203,000	200,000	203,000	*169,000	288,000	224,000	246,000	361,000	*178,000	206,000	157,000
28	*233,500	178,000	186,000	*185,750	212,000	317,000	*164,500	231,000	305,000	*178,000	*164,000	159,000
29	245,000	....	184,000	*185,750	*176,500	246,000	*164,500	217,000	*225,500	234,000	*164,000	†182,000
30	225,000	....	200,000	*185,750	*176,500	228,000	257,000	220,000	*225,500	226,000	186,000	†182,000
31	163,000	....	*167,000	....	206,000	....	249,000	231,000	....	252,000	....	†182,000
Total	6,708,000	5,935,000	5,522,000	5,654,250	5,922,750	6,754,000	6,647,000	6,827,000	6,777,000	6,522,000	5,540,000	5,536,000
Aver.	216,387	211,964	178,129	188,475	191,056	225,133	214,420	220,226	225,900	210,390	184,666	178,581

*Daily averages computed from readings taken two or more days apart.

†=Estimated: clock stopped. ‡=Planimetered.

N. B.—Total includes 320,000 gallons supplied from Little River system, as follows:—Aug. 5=170,000 gallons; Nov. 9=110,000 gallons; Nov. 20=40,000 gallons.

Total amount for 1917=74,345,000 gallons. Daily average=203,685 gallons.

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APPENDIX XXI.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

Operating Details of West Parish Filters—1917.

E. C. Cotton, Superintendent.

L. G. Carlton, Assistant Engineer.

FILTERS SCRAPED

Month	Number	Cubic Yards of Sand Removed			Depth in Inches		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	3	280	140	187	4.0	2.0	2.7
February	2	140	140	140	2.0	2.0	2.0
March	4	140	140	140	2.0	2.0	2.0
April	2	215	105	160	3.1	1.5	2.3
May	3	420	105	210	6.0	1.5	3.0
June	3	210	140	163	3.0	2.0	2.3
July	2	140	105	123	2.0	1.5	1.8
August	5	140	105	126	2.0	1.5	1.8
September	2	*1750	119	*935	*25.0	1.7	*13.4
October	3	175	126	147	2.5	1.8	2.1
November	5	770	140	266	11.0	2.0	3.8
December	0	....	....	....	....	....	....
Year	34	*1750	105	216	*25.0	1.5	3.1

FILTER RUNS AFTER SCRAPINGS

Month	Number Ending in	Million Gallons Filtered			Duration in Days		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	1	59.90	59.90	59.90	36	36	36
February	1	96.95	96.95	96.95	50	50	50
March	4	260.13	108.39	156.80	105	55	69
April	5	138.78	65.97	94.60	69	35	45
May	1	55.46	55.46	55.46	31	31	31
June	4	183.04	65.65	96.04	50	31	42
July	1	104.18	104.18	104.18	38	38	38
August	4	125.44	67.48	103.45	51	32	44
September	4	105.57	69.04	88.90	52	25	38
October	3	107.34	59.93	76.98	40	22	31
November	4	107.85	42.42	69.00	34	18	25
December	1	105.55	105.55	105.55	48	48	48
Year	33	260.13	42.42	92.32	105	18	41

*In September in Filter No. 1, the sand was wholly removed and washed.

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Operating Details of West Parish Filters—1917—Concluded.

FILTER RUNS AFTER RAKINGS

MONTH	Number Ending in	Million Gallons Filtered			Duration in Days		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	2	62.42	42.81	52.61	31	25	28
February	1	87.31	87.31	87.31	50	50	50
March	0	.....	.....	.....	.....	.....	.....
April	0	.....	.....	.....	.....	.....	.....
May	2	67.21	64.70	65.95	32	31	31
June	2	119.38	37.74	78.56	53	14	33
July	2	72.83	43.14	57.98	36	22	29
August	2	84.94	53.66	69.30	41	26	34
September	0	.....	.....	.....	.....	.....	.....
October	2	84.58	70.30	77.44	36	30	33
November	2	63.37	61.23	62.30	28	27	28
December	0	.....	.....	.....	.....	.....	.....
Year	15	119.38	37.74	45.95	53	14	22

FILTERS RESANDED

NUMBER	Cubic Yards of Sand Replaced			Depth in Inches		
	Maximum	Minimum	Average	Maximum	Minimum	Average
*3	*3080	2100	2497	*44	30	36

MILLIONS OF GALLONS

Filtered	To Sand Washer	Per Cent
4482.09	29.06	0.65

COST PER MILLION GALLONS DELIVERED TO CITY

	Supervision and Laboratory	Sand Handling	Coagulant	Grounds and Buildings	Equipment	Miscellaneous	Increase in Inventory	Total
Labor	$0.85	$1.03	$0.22	$0.73	$0.48	$0.09	.....	$3.40
Materials	.14	.27	.61	.07	.38	.04	—$0.52	0.99
Total	$0.99	$1.30	$0.83	$0.80	$0.86	$0.13	—$0.52	$4.39

*In September in Filter No. 1, the sand was wholly removed and washed.

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APPENDIX XXII.

LITTLE RIVER WATER SUPPLY,

SPRINGFIELD, MASS.

E. C. COTTON, Superintendent.

OPERATING COSTS OF WEST PARISH FILTERS — 1917.

L. G. CARLTON, Assistant Engineer.

CLASSIFICATION.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPT.	OCT.	NOV.	DEC.	YEARLY TOTALS.
Care of,—													
Grounds,	$15.48	$72.45	$95.58	$117.65	$27.99	$171.92	$367.27	$333.44	$61.28	$126.40	$36.00	$153.72	$1,579.18
Buildings,	13.90	9.30	20.00	11.55	.....	16.32	22.56	28.88	5.44	59.68	7.84	32.64	228.11
Equipment,	121.16	124.90	169.27	188.84	33.00	137.76	64.16	83.24	75.82	100.83	74.48	116.12	1,289.08
Telephone,	9.90	.....	.....	.....	4.65	.....	10.88	23.00	16.16	10.72	.....	.....	75.31
Chemist,	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	1,800.00
Supervision,	92.04	92.04	115.05	92.04	92.04	115.05	92.04	92.04	115.05	92.04	92.04	115.25	1,196.72
Laboratory,	54.00	54.00	67.50	54.00	55.86	76.80	61.44	61.44	76.80	48.80	65.28	81.60	757.52
Coagulant,—													
Hauling,	24.75	38.10	85.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	148.25
Storing,	.....	.....	35.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	35.40
Manufacturing,	52.02	7.05	106.44	40.43	34.82	76.88	113.04	67.52	65.48	88.48	106.11	8.16	766.43
Stableman,	54.00	54.00	67.50	54.00	55.86	76.80	61.44	61.44	76.80	61.44	61.44	74.24	758.96
Watchmen,	120.97	120.00	150.00	120.00	120.00	156.00	132.00	109.84	82.50	66.00	111.80	119.66	1,408.77
Ice Harvest,	49.42	92.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	142.17
Vacation Pay Roll,	30.00	14.40	22.50	.....	.....	.....	.....	31.86	30.72	15.36	.....	114.24	259.08
Total,	$787.64	$828.99	$1,084.64	$828.51	$574.22	$977.53	$1,074.83	$1,042.70	$755.55	$819.75	$704.99	$965.63	$10,444.98
Filter No. 1,—													
Cleaning,	$74.12	.....	$36.88	$36.55	$46.65	$10.72	$69.60	.....	$258.96	.....	$59.60	.....	$593.08
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	369.14	$224.71	.....	.....	593.85
Filter No. 2,—													
Cleaning,	.....	.....	51.45	.....	49.05	58.32	.....	$109.64	15.00	70.96	61.04	.....	415.46
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Filter No. 3,—													
Cleaning,	.....	$72.80	.....	12.35	51.45	9.52	58.32	42.96	7.50	.....	63.60	$7.14	325.64
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Filter No. 4,—													
Cleaning,	51.45	.....	58.45	6.18	.....	61.04	.....	9.52	61.04	10.57	44.32	11.08	313.65
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Filter No. 5,—													
Cleaning,	98.10	.....	68.45	13.30	96.56	.....	7.29	.....	59.68	8.31	66.48	.....	418.17
Resanding,	.....	.....	.....	.....	170.68	197.78	.....	.....	.....	.....	.....	.....	368.46

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Filter No. 6,—													
Cleaning,	.....	84.60	.....	80.80	.....	89.04	.....	14.00	13.64	100.16	201.70	.....	583.94
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	259.66	671.04	930.70
Total Pay Rolls,	$1,011.31	$986.39	$1,299.87	$977.69	$988.61	$1,403.95	$1,210.04	$1,218.82	$1,540.51	$1,234.46	$1,461.39	$1,654.89	$14,987.93
Bills for Mdse. Bought,—													
Grounds and Buildings,	$12.00	$31.24	$0.72	$1.30	$9.51	$1.00	$2.20	$1.15	$116.81	$31.05	.....	$94.07	$301.05
Freight and Express,	6.17	3.28	3.47	12.78	3.15	.....	.....	1.98	1.74	.....	$0.29	.....	32.86
Coagulant,	12.01	668.80	799.22	19.75	.....	1.90	.....	11.07	36.70	.....	1,111.52	14.61	2,675.58
Stock and Tools,	20.00	8.80	5.00	5.87	2.47	1.00	32.75	26.18	9.89	5.30	16.77	.....	134.03
Sand Washer, Hose, Valves, Fittings,	46.80	.....	50.26	.....	98.00	.....	.....	18.00	590.31	.....	410.08	.....	1,213.45
Laboratory Supplies,	78.83	1.25	77.23	26.37	53.60	23.16	7.00	34.00	34.82	43.29	35.27	169.26	584.08
Live Stock Account,	53.15	21.55	34.35	94.95	10.00	16.50	10.60	27.60	59.05	9.60	33.10	25.10	395.55
Repairs to Equipment,	70.49	63.61	99.36	213.75	24.07	2.45	15.00	9.03	80.28	2.50	1.70	5.86	587.60
Auto Account,	8.35	29.80	.....	4.71	88.93	21.22	146.09	7.15	33.75	79.70	131.33	28.74	579.77
N. E. Telephone,	11.07	11.29	9.94	19.54	22.43	12.94	28.34	14.86	12.81	19.08	9.69	.....	171.99
Miscellaneous,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Bills,	$318.87	$839.62	$1,079.55	$399.02	$312.16	$80.17	$241.98	$151.02	$976.16	$190.52	$1,749.75	$337.14	$6,675.96
Grand Total, Pay Rolls and Bills,	$1,330.18	$1,826.01	$2,379.42	$1,376.71	$1,300.77	$1,484.12	$1,452.02	$1,369.84	$2,516.67	$1,424.98	$3,211.14	$1,992.03	$21,668.89
Million Gallons as Metered at Provin Mountain,	355.59	340.37	363.81	339.10	359.69	365.55	387.08	410.10	372.69	390.32	352.76	378.46	4,415.52

Total Bills and Pay Rolls,	$21,663.89
Increase in Inventory,	2,293.62
Net Total Cost of Filter Operations—1917,	$19,370.27
Net Total Cost of Plant and Accessories,	$330,715.56
Interest at 4%,	$13,228.62
Total Cost of Operation, including Interest,	$32,598.89

Net Cost per Million Gallons Delivered to City, Operation and Maintenance only,	$4.39
Cost, including Operation, Maintenance and Interest, per Million Gallons,	$7.38
Cost per Million Gallons, Exclusive of Charges on Grounds, Buildings, Auto and Stable,	$3.54

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APPENDIX XXIII.

MUNICIPAL WATER WORKS, SPRINGFIELD, MASS.

TABLE OF RAINFALL—1917.

IN INCHES.

Location	Borden Brook Reservoir, Granville	West Parish Filters, Westfield	Provin Mountain Reservoir, Agawam	Ludlow Reservoir		Administration Building, Springfield	U. S. Armory, Springfield
				Gate House, Ludlow	Filters, Ludlow		
Records by—	Caretaker, S.W.W.	Superintendent, S.W.W.	Caretaker, S.W.W.	Caretaker, S.W.W.	Caretaker, S.W.W.	City Engineer.	U. S. A.
January,	3.18	4.24	4.16	2.18	2.24	1.97	3.57
February,	4.12	4.15	3.57	2.77	2.60	2.60	2.73
March,	4.75	4.89	4.21	2.63	2.75	2.87	3.57
April,	3.20	2.32	2.34	1.34	1.28	1.61	1.58
May,	4.20	4.84	4.47	3.06	2.88	3.75	4.06
June,	5.15	4.98	4.80	3.64	3.51	3.55	3.11
July,	2.35	3.77	5.52	1.83	1.80	5.37	3.72
August,	3.73	5.04	4.50	4.67	5.30	8.84	7.04
September,	1.00	.60	.64	.91	1.05	1.04	.94
October,	8.65	9.29	7.95	4.58	3.98	5.68	4.46
November,	.90	1.03	.91	.59	.57	.75	1.90
December,	4.90	4.26	3.37	2.95	2.57	1.97	1.49
Totals,	46.13	49.41	46.44	31.15	30.53	40.00	38.17
Mean,	3.84	4.12	3.87	2.60	2.54	3.33	3.18

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STREETS AND ENGINEERING

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REPORT

OF THE

DEPARTMENT OF STREETS AND ENGINEERING

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917

ADMINISTRATIVE

SPRINGFIELD, MASS., December 31, 1917.

To the Honorable City Council:—

It is again my privilege and pleasure in accordance with the provisions of Chapter 19, Section 5, of the Revised Ordinances to submit the annual report of the Superintendent of Streets and Engineering for the fiscal year 1917, together with that of the division deputies of the department.

ENGINEERING.

This division has been handicapped during the year due to resignations of assistants, either to accept higher salaries elsewhere or to enter government service, which has acted to delay the work of the topographical survey and maps of the city, yet much has been accomplished and the advantages to be gained by having the plans so far advanced is fully demonstrated by the fact that much of the necessary data is at hand for studies authorized for the improvement and extension of the sewerage system.

Efforts should be made to complete these plans at an early date and followed by a survey for more complete and accurate plans principally for assessors' use, but exceedingly valuable for use of the department as well as the property owner.

WASTE COLLECTION.

Arrangements have been made whereby all garbage is now being disposed of by sale to near-by farmers to be used only for feeding, and so distributed that no consumer can obtain enough as to enable him to maintain a large hog farm that might be considered objectionable. Equip-

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ment purchased at the time deliveries were to be made to the reduction plant is not the most economical for the present method of disposal, it having been demonstrated that lighter vehicles for one horse, on most routes, can be more satisfactorily operated both to the City and to the purchaser. Several wagons have been built at the department shop for this purpose and others are to follow. A marked decrease in the amount of garbage produced is noticeable as in all other cities from which reports have been received.

The completion of the new rubbish incinerator on Logan street affords excellent facilities for the reclamation of waste products, so much so that it is confidently expected that more advantageous terms may be obtained on a new contract for which bids are about to be asked.

It should be borne in mind when noting the expense of collections that in Springfield both ashes and rubbish are removed from the cellar and barrels returned, a service rendered by very few other cities in the country.

STREETS.

Owing to the shortage of labor it was thought wise not to undertake a large amount of permanent paving during the past season, but rather to confine the efforts to such projects as would permit the maximum use of machinery and at the same time make for the improvement of numerous and much-used diagonal residential streets badly out of repair and in need of a more modern surface.

It is gratifying, however, to be able to report that permanent pavement has been laid on three streets, in length one and one third miles; bituminous macadam on forty streets or nine miles; bituminous concrete on thirteen streets or three and three fifths miles, and other miscellaneous streets have been resurfaced, making a total of fifteen miles of paving work completed this year. In addition to this work there are fifteen streets two and two fifths miles in length on which foundations have been completed, thus allowing their use during the winter and spring months. This is a substantial gain in area over that of last year and while there has been a marked advance in the cost of labor and material the increase in the unit cost of the work has not been proportional.

The asphalt plant at the City Yard has been a substantial factor in the progress of the division and in mixing over 86,000 yards of pavement, an increase of 23.6 per cent over that of last year, exceeded what was thought to be the capacity of the plant. The principal work upon which material from this plant was used was Plainfield street, upon which now lies nearly

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a mile of grit asphalt construction. The necessity for this work was too evident to mention.

In view of the scarcity of labor and the difficulty of obtaining materials I believe that the department will be fortunate if such streets as are already authorized can be completed during the coming season. It is of more importance that existing pavements should be properly maintained and cleaned than that new construction should be undertaken.

Much attention has been given to sidewalks by the department but there has been a decrease in the amount of work done by contractors for the owner, due to the increased cost. Many walks still remain unsafe and the policy of renewals and repairs should be continued.

BRIDGES.

The new Page Boulevard bridge, designed and constructed within the department, now practically completes an additional artery of travel between the City and its eastern sections.

The division was unable to proceed with the relaying of the decking of the North End bridge owing to its inability to procure the necessary timbers from the contractor. This work will in all probability be pushed to rapid completion in the coming season.

SEWERS.

Heavy rains show conclusively that the Main street sewer should be relieved by additional trunks to the river. East Springfield district should have relief from surface water and the intercepting sewer through Hickory street should be extended. It is expected that the decrease in building operation will lessen the demand for small sewer extensions, but the necessity for trunk sewers above mentioned is very apparent.

In view of the several handicaps under which the department has labored this year it is very fortunate indeed that the efforts of the various deputies and their assistants have been so efficient. The Board of Supervisors, His Honor, Mayor Frank E. Stacy, Alderman Henry H. Caswell, and Councilman G. C. A. Fuller, have worked arduously to make this year's accomplishments of special note and it is with great pleasure that I acknowledge and thank them for their valuable aid.

Respectfully submitted,

F. H. CLARK,

Superintendent of Streets and Engineering.

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INVENTORY.

DEPARTMENT OF STREETS AND ENGINEERING.

LANDS.

Ashes and Garbage Station, State street,	$12,000.00	
City Yard, Logan street,	10,800.00	
City Yard, Pecousic avenue, east side,	19,000.00	
City Yard, Pecousic avenue, west side,	11,000.00	
City Yard, Summer street,	153,000.00	
Gravel Bank, Boston road,	200.00	
Grave' Bank, Five Mile pond,	4,500.00	
Gravel Bank, Island pond,	300.00	
Trap Rock Quarry, Westfield,	1,000.00	
Salable Land:		
67 Arch street,	1,000.00	
Carew street,	300.00	
Carew street, between Baltimore and Fleetwood streets,	600.00	
Locust street,	2,070.00	
Page boulevard,	400.00	
Pecousic avenue, between Pecousic and South streets,	5,000.00	
Fulton street, Menard lot,	3,919.00	
Fulton street, Barrett lot,	3,806.00	
Fulton street, King lot,	3,153.00	
Fulton street, Albert lot,	6,219.00	
Dwight street, Mack lot (2 sq. ft.),	43.00	
Dwight street, Mahoney, Perkins, Alden lot, (4,187 sq. ft.),	16,778.00	
Dwight street, Mahoney, Perkins, Alden lot,	18,543.00	
Dwight street, Collins lot (2,038 sq. ft.),	13,344.00	
Dwight street, King lot (29 sq. ft.),	232.00	
Dwight street, King lot (50 sq. ft.),	354.00	
Dwight street, Leary lot (2,067 sq. ft.),	35,323.00	
Dwight street, Puffer lot (1,105 sq. ft.),	18,713.00	
Abbe avenue crossing,	10,400.00	
Birnie avenue extension,	1,000.00	
West street dump,	10,000.00	
Emery street, Dunn lot,	20,876.00	
		$383,873.00

BUILDINGS AND STRUCTURES.

Pecousic avenue, east and west sides,	$28,343.41	
Incinerator, Logan street,	25,000.00	
Incinerator, north end,	7,000.00	
Emery street shop,	26,000.00	
Merg building,	20,000.00	
State street buildings,	3,800.00	
Summer street buildings,	29,200.00	
Trap rock bins and trestle,	10,000.00	
		$149,343.41

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EQUIPMENT.

Asphalt plant,	$7,523.20	
Ashes, rubbish and garbage division,	....	
Automobiles,	3,838.00	
Blacksmith shop,	1,101.33	
Carpenter shop,	968.02	
Engineering division,	3,200.41	
Forestry division,	1,859.54	
Garage,	288.50	
Harness and fittings,	1,566.85	
Highway and road machinery,	9,195.49	
Horses,	10,975.00	
Laboratory,	499.59	
Machine shop,	159.57	
Merg plant,	7,023.50	
Motorcycles,	400.00	
Motor trucks,	27,851.85	
Office furniture, etc.,	2,279.40	
Patterns,	278.00	
Paint shop,	....	
Sewer division,	258.40	
Sleighs and sleds,	1,284.87	
Stables and yards,	2,443.08	
Steam rollers,	20,709.40	
Street cleaning division,	1,923.00	
Street lighting division,	1,073.90	
Wagons and carts,	7,963.20	
Water carts,	1,409.95	
		$116,074.05

SMALL TOOLS AND PERISHABLE EQUIPMENT.

Small tools and perishable equipment,	$8,019.34	$8,019.34

SUPPLIES AND MATERIALS.

Car tickets,	$24.55	
Granite block account,	1,315.86	
Granite curbing account,	6,128.73	
In stock at Summer street yard,	14,553.30	
In stock at Emery street, South End yard, Logan street and State street,	9,236.36	
In stock at Indian Orchard yard,	383.31	
In stock at Sixteen Acres,	12.18	
Forestry stock,	3,857.96	
Wood block account,	6,649.65	
		$42,161.90

RECAPITULATION.

Lands,	$383,873.00
Buildings and Structures,	149,343.41
Equipment,	116,074.05
Small Tools and Perishable Equipment,	8,019.34
Supplies and Materials,	42,161.90
Grand Total,	$699,471.70

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RECONCILIATION OF "EXPENDITURES FROM APPROPRIATIONS" TO AMOUNT OF "COST OF WORK PERFORMED."

"Cost of Work Performed" as per statement,		$1,057,931.11
Deduct		
Charge for "Depreciation of Equipment" not included in charges against appropriation,	$20,500.87	
Overhead and equipment expense over applied,	2,254.91	
Balance of Adjustment Account,	850.61	23,606.39
		$1,034,324.72
Add		
Purchase and manufacture of small tools,	$9,291.98	
Purchase and manufacture of equipment,	29,412.03	
Material used not charged to completed work,	165.51	
Unpaid Bills of 1916,	2,662.52	
Material and Supplies Inventory, 1917,	42,161.90	
Acquirement of Merg Plant,	5,311.66	89,005.60
		$1,123,330.32

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STATEMENT OF EXPENDITURES FROM APPROPRIATIONS.

Title of Account.	Original Appropriation.	Credit Transfers.	Debit Transfers.	Total Amount Available.	Expended	Unexpended Balance	Encumbrances.	Unencumbered Balance.
WS-00—Personal services,	$555,374.74	$9,859.23	$49,359.54	$594,875.05	$594,875.05	.....	.....	.....
WS-10—Services other than personal,	160,593.85	.....	14,808.40	175,402.25	175,174.85	$227.40	$227.40	.....
WS-20—Fixed charges and contributions,	2,239.56	105.60	119.74	2,253.70	2,253.70	.....	.....	.....
WS-30—Supplies,	31,586.12	3,253.45	19,607.74	47,940.41	47,276.99	663.42	663.42	.....
WS-40—Materials,	239,662.21	43,288.17	22,287.60	218,661.64	199,480.93	19,180.71	19,180.71	.....
WS-50—Equipment,	34,221.55	4,012.66	11,373.96	41,582.85	37,814.63	3,768.22	3,768.22	.....
WS-60—Lands, structures, capital outlay,	39,828.37	30,653.86	.....	9,174.51	9,174.51	.....	.....	.....
WS-215—Stock,	53,612.42	.....	5,523.16	59,135.58	57,279.66	1,855.92	1,855.92	.....
Credits available for reappropriation,	.....	31,907.17	32,648.79	741.62	.....	741.62	.....	$741.62
	$1,117,118.82	$123,080.14	$155,728.93	$1,149,767.61	$1,123,330.82	$26,437.29	$25,695.67	$741.62

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CAPITAL ACCOUNTS.

Title of Account.	Appropriation.	Credit Transfers.	Debit Transfers	Total Amount Available.	Expended.	Unexpended Balance.
Dwight street underpass,	$27,142.55	.....	.....	$27,142.55	.....	$27,142.55
Dwight and Willow streets extension,	1,036.87	.....	.....	1,036.87	.....	1,036.87
Fulton street widening,	21,381.58	.....	.....	21,381.58	$117.85	21,263.73
Water street widening,	35,662.00	.....	.....	35,662.00	31,581.68	4,080.32
Water street underpass,	69,001.40	.....	.....	69,001.40	20,254.09	48,747.31
Wayfarers' Lodge,	20,500.00	$3,877.56	.....	24,377.56	21,695.81	2,681.75
.....	$174,724.40	$3,877.56	.....	$178,601.96	$73,649.43	$104,952.53

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SEWERS.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
CONSTRUCTION. CITY COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
Vitrified clay pipe,	$15,390.57	$627.77	$9,079.46	$347.15	$4,434.56	$5.74	$202.62	$17.91	.....	$856.46	$30,962.24	15,263'	$2.02
Concrete,	4,093.38	99.75	1,892.42	929.09	894.16	.....	147.53	.....	$17.00	205.86	8,279.19	.....	.....
Segment block,	1,085.05	3.00	99.04	420.52	318.30	.....	7.10	.....	.....	70.73	2,003.74	.....	.....
Wellholes,	1,606.48	204.99	2,776.96	2.40	383.69	20.71	57.51	3.40	.....	82.69	5,138.83	.....	.....
Manholes,	88.48	17.60	135.86	.....	21.20	.....	7.60	.....	.....	4.47	275.21	.....	.....
Flush gates,	.....	.....	.....	1,060.06	.....	.....	.....	.....	.....	.....	1,060.06	.....	.....
Total cost,	$22,263.96	$953.11	$13,983.74	$2,759.22	$6,051.91	$26.45	$422.36	$21.31	$17.00	$1,220.21	$47,719.27	.....	.....
CONSTRUCTION. ASSESSABLE COST.													
Wellholes,	$21.55	$5.60	$24.62	.....	$6.84	.....	$1.00	.....	.....	$1.14	$60.75	.....	.....
Total cost,	$21.55	$5.60	$24.62	.....	$6.84	.....	$1.00	.....	.....	$1.14	$60.75	.....	.....
MAINTENANCE, REPAIRING. CITY COST.													
Vitrified clay pipe,	$319.77	$32.19	$36.38	.....	$92.92	$15.70	$33.10	$2.45	.....	$17.27	$549.78	.....	.....
Brick,	567.59	18.75	218.77	$1.60	146.20	2.78	29.00	.....	.....	31.81	1,016.50	.....	.....
Manholes,	154.04	62.75	246.99	.....	37.80	.60	1.80	.....	.....	7.08	511.06	.....	.....
Wellholes,	882.18	244.40	2,251.98	14.25	224.26	33.48	49.52	3.80	.....	43.32	3,747.19	.....	.....
Flush gates,	.....	.....	.....	371.28	.....	.....	.....	.....	.....	.....	371.28	.....	.....
Total cost,	$1,923.58	$358.09	$2,754.12	$387.13	$501.18	$52.56	$113.42	$6.25	.....	$99.48	$6,195.81	.....	.....

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CLASSIFICATION OF EXPENSE -*Continued.*

SEWERS.—Continued.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
MAINTENANCE, REPAIRING. ASSESSABLE COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
Vitrified clay pipe,	$8.16	$0.70	$1.00		$2.76			$0.40		$0.16	$13.18		
Wellholes,	11.90	.75	16.47		3.96					.80	33.74		
Manholes,	8.02	1.75	4.84		2.10		$2.25			.37	19.33		
Private drains, construction,	3,571.42	97.52	1,517.74	$15.58	1,086.15	$78.41	238.26	30.53		198.69	6,834.30		
Repairing and relaying,	306.73	16.25	96.26		87.80	12.40	17.56	5.70		17.08	559.77		
Construction to curb or special work,	80.32		36.33		24.58	2.63		.10		4.58	148.84		
Cleaning private drains,	122.30	3.75	4.91		36.82	5.86	29.49	.80		6.52	210.45		
Cleaning wellholes,	2.20				.54	.53				.12	3.39		
Miscellaneous,	68.61	19.75	59.92		17.78	2.63	2.25	1.80		3.60	176.34		
Total cost,	$4,179.66	$140.47	$1,737.47	$15.58	$1,262.49	$102.46	$289.80	$39.63		$232.08	$7,999.64		
MAINTENANCE, FLUSHING,													
Total cost,	$1,800.61	$1.40	$8.22		$512.30	$1,558.90	$11.55			$96.67	$4,019.65		
MAINTENANCE, CLEANING.													
Vitrified clay pipe,	$1,030.02	$360.70	$5.29		$343.03	$6.21	$15.26			$54.86	$1,816.27		
Brick,	1,446.02	313.50	2.40		509.00	2.00	1.80			86.00	2,360.72		
Flush gates,				$1.46							1.46		
Outlets,	147.19	3.75			40.53		3.20			7.90	202.57		
Inlets,	7.80				2.52					.48	10.80		
Total cost,	$2,631.03	$677.95	$7.69	$1.46	$895.98	$8.21	$20.26			$149.24	$4,391.82		

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CLASSIFICATION OF EXPENSE.—*Continued.*

SEWERS.—Continued. MAINTENANCE.	Cost of Work Performed. Labor, Material, Equipment and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Miscellaneous,	$453.42	$6.37	$4.17	$14.60	$137.88	$1.40	$14.40	.....	.....	$23.02	$655.26	.....	.....
Sewer survey,	7,059.59	.....	35.10	289.80	1,782.53	.....	2.60	.....	.....	320.03	9,489.65	.....	.....
Total cost,	$7,513.01	$6.37	$39.27	$304.40	$1,920.41	$1.40	$17.00	.....	.....	$343.05	$10,144.91	.....	.....
Grand total, Sewers,	$40,333.40	$2,142.99	$18,555.13	$3,467.79	$11,181.11	$1,749.98	$875.39	$67.19	$17.00	$2,141.87	$80,531.85	.....	.....
GARBAGE DISPOSAL.												lbs.	
Garbage collection,	$23,180.65	$697.44	.....	.....	$3,441.05	$16,174.30	$118.75	.....	.....	$1,344.84	$44,957.03	23,075,602	$0.00194
Garbage disposal,	1,349.47	41.60	62.04	144.07	208.69	29.68	3.70	.....	.....	78.50	1,917.75	.....	.....
Total cost,	$24,530.12	$739.04	$62.04	$144.07	$3,649.74	$16,203.98	$122.45	.....	.....	$1,423.34	$46,874.78	.....	.....
ASHES AND REFUSE DISPOSAL.												loads.	
Ashes,	$53,268.65	$10,595.65	$1.31	$0.06	7,909.48	$13,378.56	.....	.....	.....	$3,087.78	$88,241.49	33,197	3.41
Ashes, assessable,	614.80	.....	.....	.....	92.30	.....	.....	.....	.....	38.15	745.25	.....	.....
Refuse,	13,713.88	8.24	.....	3,312.40	2,045.38	5,097.94	.....	.....	.....	808.65	24,986.49	5,943	4.20
Total cost,	$67,597.33	$10,603.89	$1.31	$3,312.46	$10,047.16	$18,476.50	.....	.....	.....	$3,934.58	$113,973.23	.....	.....
Grand total, Ashes, Refuse and Garbage Disposal,	$92,127.45	$11,342.93	$63.35	$3,456.53	$13,696.90	$34,680.48	$122.45	.....	.....	$5,357.92	$160,848.01	.....	.....

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CLASSIFICATION OF EXPENSE. *Continued.*

HIGHWAYS.

	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.												
CONSTRUCTION. CITY COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost	Total Work Units	Unit Cost
Water-bound macadam,	$4,847.37	$3,865.39	$371.26	$825.20	$1,122.28	$47.95	$116 85	$16.20	$363 00	$270.91	$12,146 41		
Bituminous macadam,	25,066.26	26,976.00	40,562.34	3,204.76	7,540.38	60.55	3,159 91	1,853 00	809 00	1,106 24	110,638 44		
Bituminous concrete,	3,629.79	1,197.62	7,306.39	1,867.59	1,131.41		37.85	302.10	68.40	20.84	15,746 99		
Wood blocks,	544.14	164.15	2,280.68		179.25		47.50		12 30	24 44	3,252 46		
Brick,	1,599.12	663.25	2,532.31	117.21	522.17		84.55	6.00	28.20	94.94	5,647 75		
Fences,	14.38		4.38		4.15					79	23 70		
Asphalt,	8,074.91	2,908.92	9,800.44	8,348.55	2,342.81	106.75	270.58	363.20	505.15	441.22	33,166 53		
Concrete mixture,	234.08	64.50	80.52	183.85	72.04	.60	12.65		11.40	13.11	6 78		
Total cost,	$44,010.05	$35,839.83	$62,938.32	$14,547.16	$13,214.49	$215.85	$3,729.89	$2,540.50	$1,797.45	$2,160.52	$181,294.06		
MAINTENANCE. CITY COST.													
Water-bound macadam,	$4,179.95	$3,415.60	$5,751.63	$13.36	$1,269.16	$124.30	$131.25	$715.15		$230.10	$15,860 80		
Bituminous macadam,	12,784.95	6,709.17	19,526.07	228.86	3,889.14	21.13	982.18	1,118 50		715 99	46,306 89		
Bituminous concrete,	10,627.48	3,834.32	36,868.37	5.26	3,242.35		111.38	1,502 28		589 50	56,813 94		
Wood blocks,	2,638.28	845.19	10,164.44		845.29	.90	76.13			153 62	14,723 85		
Granite blocks,	323.09	110.60	27.68	30.07	94.71	.60				17 34	604 12		
Brick,	805.19	437.05	185.84		248.18					45 10	1,721 66		
Bitulithic,	204.11		483.85		61.22			32.66		10.69	792 53		
Gravel,	6,694.55	6,080.71	4,149.45	47.43	2,114.27	1.10	319.96	119.20	$127.00	376.98	20,080 66		
Fences,	624.99	224.14	194.80	141.14	195.27		4.50			34.49	1,119 33		
Asphalt,	735.27	44.43	2,928.07	2.40	209.10			165.25		38.16	4,122 98		
Hassam,	12.76	15.00	3.51		3.92					72	35 91		
Miscellaneous,	1,140.93	36.60	38.83	457.28	404.19	3.60	362.16	5.20		74 15	2,523 24		
Endurite,	46.94		43.00		13.97			9.00		2 54	115 46		
Concrete mixture,	59.09	20.25	21.82		17.64		1.50			3 11	123 41		
Rocmac,	28.26		3.01		7.92			9.60		1 11	50 23		
Signs,	923.94	.75	721.68	120.20	266.21	3.00	112.35			15 50	2,193 63		
Total cost,	$41,829.78	$21,773.81	$81,112.05	$1,046.00	$12,883.47	$154.93	$2,134.71	$4,066.84	$127.00	$2,340.03	$167,168.02		

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CLASSIFICATION OF EXPENSE.—*Continued.*

	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
HIGHWAYS. —Continued	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment	Depreciation of Equipment.	Total Cost.		
MAINTENANCE. ASSESSABLE COST.													
Water-bound macadam,	$504.11	$351.93	$196.09	.....	$149.78	.....	.....	$109.55	.....	$26.45	$1,337.86	.....	.....
Water-bound macadam between tracks,	3.16	1.50	1.19	.....	.88	.....	.....	1.00	.....	.16	7.89	.....	.....
Bituminous macadam,	655.50	393.95	540.21	.....	196.99	.....	.....	132.17	.....	35.21	1,954.03	.....	.....
Bituminous macadam between tracks,	98.53	56.50	257.38	.....	29.11	.....	$8.55	15.40	.....	5.42	470.89	.....	.....
Bituminous concrete,	512.52	4.60	578.99	.....	152.84	.....	.....	89.40	.....	28.18	1,366.53	.....	.....
Bituminous concrete between tracks,	55.39	17.85	25.85	.....	16.67	.....	.....	5.25	.....	3.03	124.04	.....	.....
Wood blocks,	599.35	190.04	648.59	.....	190.45	$0.60	.....	.....	.....	33.61	1,662.64	.....	.....
Wood blocks between tracks,	901.50	231.80	944.52	.....	284.52	.....	.....	.....	.....	51.80	2,414.14	.....	.....
Granite blocks,	97.50	47.65	25.88	.....	28.65	.....	.....	.....	.....	5.27	204.95	.....	.....
Granite blocks between tracks,	71.96	20.20	8.45	.....	22.00	.....	.....	.....	.....	4.06	126.67	.....	.....
Brick,	215.60	105.30	131.75	.....	65.05	.....	.....	.....	.....	11.84	529.54	.....	.....
Brick between tracks,	258.32	72.95	130.55	.....	80.80	.....	.....	.....	.....	14.70	557.32	.....	.....
Bitulithic,	31.56	.....	22.92	.....	10.73	.....	.....	3.54	.....	1.79	70.54	.....	.....
Hassam,	3.67	1.87	1.45	.....	1.10	.....	.....	.....	.....	.20	8.29	.....	.....
Asphalt,	200.56	20.08	144.20	.....	58.73	.....	2.50	27.60	.....	10.85	464.52	.....	.....
Asphalt between tracks,	67.71	1.47	55.10	.....	19.47	.....	.....	21.20	.....	3.54	168.49	.....	.....
Miscellaneous,	2.97	.....	.80	.....	.99	.....	.75	.....	.....	.18	5.69	.....	.....
Concrete mixture,	1.47	1.50	.64	.....	.44	.....	.....	.....	.....	.08	4.13	.....	.....
Total cost,	$4,281.38	$1,519.19	$3,714.56	.....	$1,309.15	$0.60	$11.80	$405.11	.....	$236.37	$11,478.16	.....	.....
Grand total, Highways,	$90,121.21	$59,132.83	$147,764.93	$15,593.16	$27,407.11	$371.38	$5,876.40	$7,012.45	$1,924.45	$5,036.92	$360,240.84	.....	.....
BRIDGES.													
CONSTRUCTION.													
Berkshire avenue,	$79.41	.....	.....	$6.00	$9.90	.....	.....	.....	.....	$2.20	$97.51	.....	.....
Page boulevard,	8,589.59	$180.36	$202.39	8,282.35	1,950.93	.....	$443.85	$7.80	$133.47	433.54	20,224.28	.....	.....
St. James avenue,	19.28	.....	.....	.....	3.06	.....	.....	.....	.....	.68	23.02	.....	.....
Total cost,	$8,688.28	$180.36	$202.39	$8,288.35	$1,963.89	.....	$443.85	$7.80	$133.47	$436.42	$20,344.81	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

HIGHWAYS.

	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.												
CONSTRUCTION. CITY COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Water-bound macadam,	$4,847.37	$3,865.39	$371.26	$825.20	$1,422.28	$47.95	$116.85	$16.20	$363.00	$270.91	$12,146.41	.....	.....
Bituminous macadam,	25,066.26	26,976.00	40,562.34	3,204.76	7,540.38	60.55	3,159 91	1,853.00	809.00	1,406.24	110,638.44	.....	.....
Bituminous concrete,	3,629.79	1,197.62	7,306.39	1,867.59	1,131.41	.....	37.85	302.10	68.40	205.84	15,746.99	.....	.....
Wood blocks,	544.14	164.15	2,280.68	.....	179.25	.....	47.50	.....	12.30	24.44	3,252.46	.....	.....
Brick,	1,599.12	663.25	2,532.31	117.21	522.17	.....	84.55	6.00	28.20	94.94	5,647.75	.....	.....
Fences,	14.38	.....	4.38	.....	4.15	.....	.....	.....	.....	.79	23.70	.....	.....
Asphalt,	8,074.91	2,908.92	9,800.44	8,348.55	2,342.81	106.75	270.58	363.20	505.15	444.22	33,165.53	.....	.....
Concrete mixture,	234.08	64.50	80.52	183.85	72.04	.60	12.65	.....	11.40	13.14	672.78	.....	.....
Total cost,	$44,010.05	$35,839.83	$62,938.32	$14,547.16	$13,214.49	$215.85	$3,729.89	$2,540.50	$1,797.45	$2,460.52	$181,294.06	.....	.....
MAINTENANCE. CITY COST.													
Water-bound macadam,	$4,179.95	$3,415.60	$5,751.63	$13.36	$1,269.16	$124.30	$131.25	$745.15	.....	$230.40	$15,860.80	.....	.....
Bituminous macadam,	12,784.95	6,709.17	19,526.07	228.86	3,889.44	21.43	982.48	1,448.50	.....	715.99	46,306.89	.....	.....
Bituminous concrete,	10,627.48	3,834.32	36,868.37	5.26	3,242.35	.....	144.38	1,502.28	.....	589.50	56,813.94	.....	.....
Wood blocks,	2,638.28	845.19	10,164.44	.....	845.29	.90	76.13	.....	.....	153.62	14,723.85	.....	.....
Granite blocks,	323.09	110.60	27.68	30.07	94.74	.60	.....	.....	.....	17.34	604.12	.....	.....
Brick,	805.19	437.05	185.84	.....	248.18	.....	.....	.....	.....	45.40	1,721.66	.....	.....
Bitulithic,	204.11	.....	483.85	.....	61.22	.....	.....	32.66	.....	10.69	792.53	.....	.....
Gravel,	6,694.55	6,080.71	4,149.45	47.43	2,114.27	1.10	319.96	149.20	$127.00	376.98	20,060.65	.....	.....
Fences,	624.99	224.14	194.80	141.14	195.27	.....	4.50	.....	.....	34.49	1,419.33	.....	.....
Asphalt,	735.27	44.43	2,928.07	2.40	209.40	.....	.....	165.25	.....	38.16	4,122.98	.....	.....
Hassam,	12.76	15.00	3.51	.....	3.92	.....	.....	.....	.....	.72	35.91	.....	.....
Miscellaneous,	1,140.93	36.60	38.83	457.28	404.49	3.60	362.16	5.20	.....	74.15	2,523.24	.....	.....
Endurite,	46.94	.....	43.00	.....	13.97	.....	.....	9.00	.....	2.54	115.45	.....	.....
Concrete mixture,	59.09	20.25	21.82	.....	17.64	.....	1.50	.....	.....	3.11	123.41	.....	.....
Roemac,	28.26	.....	3.01	.....	7.92	.....	.....	9.60	.....	1.44	50.23	.....	.....
Signs,	923.94	.75	721.68	120.20	266.21	3.00	112.35	.....	.....	45.50	2,193.63	.....	.....
Total cost,	$41,829.78	$21,773.81	$81,112.05	$1,046.00	$12,883.47	$154.93	$2,134.71	$4,066.84	$127.00	$2,340.03	$167,468.62	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

HIGHWAYS.—Continued	Cost of Work Performed. Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
MAINTENANCE. ASSESSABLE COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment	Depreciation of Equipment.	Total Cost.		
Water-bound macadam,	$504.11	$351.93	$196.09	.....	$149.73	.....	.....	$109.55	.....	$26.45	$1,337.86	.....	.....
Water-bound macadam between tracks,	3.16	1.50	1.19	.....	.88	.....	.....	1.00	.....	.16	7.89	.....	.....
Bituminous macadam,	655.50	393.95	540.21	.....	196.99	.....	.....	132.17	.....	35.21	1,954.03	.....	.....
Bituminous macadam between tracks,	98.53	56.50	257.38	.....	29.11	.....	$8.55	15.40	.....	5.42	470.89	.....	.....
Bituminous concrete,	512.52	4.60	578.99	.....	152.84	.....	.....	89.40	.....	28.18	1,366.53	.....	.....
Bituminous concrete between tracks,	55.39	17.85	25.85	.....	16.67	.....	.....	5.25	.....	3.03	124.04	.....	.....
Wood blocks,	599.35	190.04	648.59	.....	190.45	$0.60	.....	.....	.....	33.61	1,662.64	.....	.....
Wood blocks between tracks,	901.50	231.80	944.52	.....	284.52	.....	.....	.....	.....	51.80	2,414.14	.....	.....
Granite blocks,	97.50	47.65	25.88	.....	28.65	.....	.....	.....	.....	5.27	204.95	.....	.....
Granite blocks between tracks,	71.96	20.20	8.45	.....	22.00	.....	.....	.....	.....	4.06	126.67	.....	.....
Brick,	215.60	105.30	131.75	.....	65.05	.....	.....	.....	.....	11.84	529.54	.....	.....
Brick between tracks,	258.32	72.95	130.55	.....	80.80	.....	.....	.....	.....	14.70	557.32	.....	.....
Bitulithic,	31.56	.....	22.92	.....	10.73	.....	.....	3.54	.....	1.79	70.54	.....	.....
Hassam,	3.67	1.87	1.45	.....	1.10	.....	.....	.....	.....	.20	8.29	.....	.....
Asphalt,	200.56	20.08	144.20	.....	58.73	.....	2.50	27.60	.....	10.85	464.52	.....	.....
Asphalt between tracks,	67.71	1.47	55.10	.....	19.47	.....	.....	21.20	.....	3.54	168.49	.....	.....
Miscellaneous,	2.97	.....	.80	.....	.99	.....	.75	.....	.....	.18	5.69	.....	.....
Concrete mixture,	1.47	1.50	.64	.....	.44	.....	.....	.....	.....	.08	4.13	.....	.....
Total cost,	$4,281.38	$1,519.19	$3,714.56	.....	$1,309.15	$0.60	$11.80	$405.11	.....	$236.37	$11,478.16	.....	.....
Grand total, Highways,	$90,121.21	$59,132.83	$117,764.93	$15,593.16	$27,407.11	$371.38	$5,876.40	$7,012.45	$1,924.45	$5,036.92	$360,240.84	.....	.....
BRIDGES.													
CONSTRUCTION.													
Berkshire avenue,	$79.41	.....	.....	$6.00	$9.90	.....	.....	.....	.....	$2.20	$97.51	.....	.....
Page boulevard,	8,589.59	$180.36	$202.39	8,282.35	1,950.93	.....	$443.85	$7.80	$133.47	433.54	20,224.28	.....	.....
St. James avenue,	19.28	.....	.....	.....	3.06	.....	.....	.....	.....	.68	23.02	.....	.....
Total cost,	$8,688.28	$180.36	$202.39	$8,288.35	$1,963.89	.....	$443.85	$7.80	$133.47	$436.42	$20,344.81	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

BRIDGES.—Continued MAINTENANCE.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Old Toll Bridge.													
Roadway,	$1,028.55	$10.25	$122.95	$1,783.48	$268.25	.....	$12.50	.....	.....	$53.78	$3,279.76	.....	.....
Sidewalks and railings,	.....	.....	.....	8.82	.....	.....	.....	.....	.....	.....	8.82	.....	.....
Cleaning,	20.32	26.00	.....	.....	5.84	.....	.....	.....	.....	1.24	53.40	.....	.....
Watching,	1,780.00	.....	1.10	.....	545.18	.....	.....	.....	.....	109.48	2,435.76	.....	.....
Armory Street (B. & A.)													
Roadway,	142.59	.....	194.60	.....	39.20	.....	27.25	.....	.....	7.67	411.31	.....	.....
Armory Street (N. Y., N. H. & H. R. R.)													
Roadway,	.....	.....	3.16	.....	.....	.....	.....	.....	.....	.....	3.16	.....	.....
Sidewalks and railings,	7.64	.....	.....	.....	1.44	.....	.....	.....	.....	.32	9.40	.....	.....
Red House Crossing Bridge.													
Roadway,	.....	.....	1.67	.....	.....	.....	.....	.....	.....	.....	1.67	.....	.....
North End Bridge.													
Roadway,	463.67	6.37	520.55	424.62	106.75	.....	9.50	.....	.....	22.96	1,554.42	.....	.....
Cleaning,	48.88	2.80	.....	.....	13.70	$6.30	.....	.....	.....	3.08	74.76	.....	.....
Steel work,	.....	.....	.....	547.50	.....	.....	.....	.....	.....	.....	547.50	.....	.....
Abbe Avenue Bridge.													
Roadway,	8.01	.....	.....	181.56	1.35	.....	.....	.....	.....	.30	191.22	.....	.....
Sidewalk,	11.81	.....	.21	.....	2.80	.....	2.25	.....	.....	.56	17.63	.....	.....
Steel work,	182.43	11.20	2.67	1,757.39	51.35	.....	16.63	.....	.....	7.70	2,029.37	.....	.....
Ludlow Bridge.													
Roadway,	266.49	4.90	9.59	727.46	68.97	.....	9.50	.....	.....	13.80	1,100.71	.....	.....
Painting,	303.45	.....	71.64	.....	80.00	.....	18.75	.....	.....	16.00	489.84	.....	.....
Sidewalks and railings,	3.63	2.10	.29	.....	.90	.....	.....	.....	.....	.14	7.06	.....	.....
Steel work,	7.54	.....	.29	4.50	1.30	.....	.....	.....	.....	.26	13.89	.....	.....
South End Bridge.													
Roadway,	37.53	19.50	40.78	.....	9.24	.70	.....	.....	.....	1.98	109.73	.....	.....
Painting,	348.89	.....	78.80	49.14	91.00	.....	.....	.....	.....	18.20	585.03	.....	.....
Plainfield Street Bridge.													
Railings,	12.62	.....	.54	10.55	2.80	.....	.....	.....	.....	.56	27.07	.....	.....
Sundry Bridges.													
Roadway,	2.98	.....	.79	.....	.72	.....	.....	.....	.....	.16	4.65	.....	.....
Masonry,	329.40	18.20	87.82	154.40	87.90	4.80	5.00	.....	$1.20	17.58	705.80	.....	.....
Total cost,	$5,005.93	$101.32	$1,136.45	$5,649.42	$1,378.69	$11.80	$101.38	.....	$1.20	$275.77	$13,661.96	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

BRIDGES.—Continued.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
MAINTENANCE. ASSESSABLE COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
North End Bridge.													
Roadway,.....	$79.78	.....	$49.62	.....	$18.00	.....	.....	.....	.....	$3.94	$151.34	.....	.....
Total cost,.....	$79.78	.....	$49.62	.....	$18.00	.....	.....	.....	.....	$3.94	$151.34	.....	.....
Grand total, Bridges,....	$13,773.99	$281.68	$1,388.46	$13,937.77	$3,360.58	$11.80	$545.23	$7.80	$134.67	$716.13	$34,158.11	.....	.....
SIDEWALKS AND CURBING.													
CONSTRUCTION. CITY COST.													
Concrete walks,.....	$429.97	$131.05	$84.82	$602.84	$162.63	.....	$21.88	.....	$22.20	$24.99	$1,480.38	.....	.....
Granite curb,.....	11,057.90	3,819.16	405.34	1.70	2,883.38	$18.73	61.80	.....	.....	644.04	18,892.05	.....	.....
Total cost,.....	$11,487.87	$3,950.21	$490.16	$604.54	$3,046.01	$18.73	$83.68	.....	$22.20	$669.03	$20,372.43	.....	.....
CONSTRUCTION. ASSESSABLE COST.													
Concrete walks,.....	$5,932.65	$1,666.06	$1,409.07	$4,211.23	$1,614.21	.....	$43.38	.....	$458.45	$327.09	$15,662.14	.....	.....
Granite curb,.....	2,026.02	2,149.66	20,710.35	11.90	500.78	.....	233.78	.....	.....	118.10	25,750.59	.....	.....
Total cost,.....	$7,958.67	$3,815.72	$22,119.42	$4,223.13	$2,114.99	.....	$277.16	.....	$458.45	$445.19	$41,412.73	.....	.....
MAINTENANCE. CITY COST.													
Concrete walks,.....	$29.20	$6.75	$4.60	.....	$10.73	$3.45	.....	.....	.....	$1.54	$56.27	.....	.....
Brick walks,.....	432.77	182.09	91.96	$6.20	117.88	137.18	$16.50	.....	.....	23.57	1,008.15	.....	.....
Granite curbs,.....	893.06	234.10	37.39	8.93	278.30	.....	1.25	.....	.....	50.49	1,503.52	.....	.....
Crosswalks,.....	9.88	5.10	3.33	.....	3.18	.....	.....	.....	.....	.54	22.03	.....	.....
Driveways,.....	36.70	19.50	17.42	.....	8.92	.....	.....	.....	.....	1.96	84.50	.....	.....
Tar walks,.....	79.80	164.25	109.46	.....	16.80	.....	.....	.....	.....	4.20	374.51	.....	.....
Tree belts,.....	344.05	76.77	.....	7.00	129.31	18.00	.....	.....	.....	20.37	595.50	.....	.....
Total cost,.....	$1,825.46	$688.56	$264.16	$22.13	$565.12	$158.63	$17.75	.....	.....	$102.67	$3,644.48	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

SIDEWALKS AND CURBING.—Continued. MAINTENANCE. ASSESSABLE COST.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Bricks walks,	$73.94	$30.75	$17.33	.....	$17.80	.....	.....	.....	.....	$3.94	$143.76	.....	.....
Granite curb,	25.12	19.50	58.41	.....	5.44	.....	.....	.....	.....	1.36	109.83	.....	.....
Cobble gutters,	2.86	1.50	.13	.....	1.12	.....	.....	.....	.....	.16	5.77	.....	.....
Driveways,	375.53	163.24	515.07	$66.64	120.90	.....	$1.00	.....	$6.60	20.60	1,269.58	.....	.....
Total cost,	$477.45	$214.99	$590.94	$66.64	$145.26	.....	$1.00	.....	$6.60	$26.06	$1,528.94	.....	.....
Grand total, Sidewalks and Curbing,	$21,749.45	$8,669.48	$23,464.68	$4,916.44	$5,871.38	$177.36	$379.59	.....	$487.25	$1,242.95	$66,958.58	.....	.....
SPRINKLING STREETS.													
City Cost,	$4,911.37	$2,396.80	$2.69	$4,791.31	$2,498.42	.....	$2,200.50	.....	.....	$285.76	$17,086.85	.....	.....
Total cost,	$4,911.37	$2,396.80	$2.69	$4,791.31	$2,498.42	.....	$2,200.50	.....	.....	$285.76	$17,086.85	.....	.....
OILING STREETS.													
MAINTENANCE.												Sq. yards	
Oil,	$426.35	$25.50	$5,041.68	$17.96	$60.06	.....	$282.74	.....	.....	$23.50	$5,877.79	18,707.01	$0.00314
Oil and sand,	2,715.51	1,622.12	8,435.56	9.06	627.85	$10.80	479.18	.....	.....	162.22	14,062.30	5,050.91	.027
Assessable cost,	20.86	.....	456.45	.....	2.60	.....	24.87	.....	.....	1.16	505.94	.....	.....
Total cost,	$3,162.72	$1,647.62	$13,933.69	$27.02	$690.51	$10.80	$786.79	.....	.....	$186.88	$20,446.03	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

LIGHTING STREETS.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Lighting streets and bridges,	.....	.....	.....	$133,754.03	$4,014.58	.....	.....	.....	.....	.....	$137,768.61	.....	.....
Flood lighting, Municipal Group,	.....	.....	$0.35	127.64	.....	.....	.....	.....	.....	.....	127.99	.....	.....
Total cost,	.....	.....	$0.35	$133,881.67	$4,014.58	.....	.....	.....	.....	.....	$137,896.60	.....	.....
OUTSIDE COSTS.													
Rent of equipment and material sold,	$733.40	$424.35	$924.54	$6.36	$221.76	.....	$624.08	$1.60	$17.00	$41.18	$2,994.27	.....	.....
Rent of rollers,	18.25	.....	.....	.....	5.00	.....	.....	9.40	.....	.91	33.56	.....	.....
Miscellaneous,	32.10	.....	1,313.45	7.00	4.69	.....	.....	.....	.....	1.85	1,359.09	.....	.....
Oiling,	2.22	.....	81.00	.....	.12	.....	41.75	.....	.....	.12	125.21	.....	.....
Maintenance of Building Department cars,	212.74	.....	576.10	147.60	33.80	.....	.....	.....	.....	.....	970.24	.....	.....
Total cost,	$998.71	$424.35	$2,895.09	$160.96	$265.37	.....	$665.83	$11.00	$17.00	$44.06	$5,482.37	.....	.....
STREET CLEANING.													
Patrol,	$32,831.65	$467.30	$22.91	.....	$5,219.09	$457.15	$1,172.98	.....	.....	$1,967.75	$42,138.83	.....	.....
Leaves,	637.14	353.23	.....	.....	154.59	.....	.....	.....	.....	37.50	1,182.46	.....	.....
Machine,	2,310.70	3,325.71	4.68	.....	303.74	10.50	5.00	.....	.....	137.49	6,097.82	.....	.....
Macadam,	16,269.89	3,972.30	.....	.....	2,847.17	2,347.65	.....	.....	.....	1,018.24	26,455.25	.....	.....
Gutters,	1,128.89	744.87	.13	.....	134.61	3.60	.....	.....	.....	67.31	2,079.41	.....	.....
Crosswalks,	7,596.00	.....	.....	.....	1,142.98	.....	.....	.....	.....	470.18	9,209.16	.....	.....
Gravel,	148.57	105.07	.....	.....	20.74	.....	.....	.....	.....	8.71	283.09	.....	.....
Wellholes,	1,667.05	306.17	.....	.....	241.96	118.73	193.88	.....	.....	92.87	2,620.66	.....	.....
Catch basins,	417.40	239.96	6.85	.....	56.88	.....	.....	.....	.....	23.27	744.36	.....	.....
Squeegee,	3.29	18.38	.....	.....	.47	.....	.....	.....	.....	.14	22.28	.....	.....
Total cost,	$63,010.58	$9,532.99	$34.57	.....	$10,122.23	$2,937.63	$1,371.86	.....	.....	$3,823.46	$90,833.32	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

STREET CLEANING.—Continued.	Cost of Work Performed. Labor, Materials, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Sanding,	$724.66	$661.07	$100.87	.....	$95.18	$5.70	$28.93	.....	....	$36.54	$1,652.95	.....	.....
Removal of snow and ice,	11,670.75	7,560.00	281.64	.....	1,417.68	79.80	172.88	.....	.....	691.29	21,874.04	.....	.....
Total cost,	$12,395.41	$8,221.07	$382.51	.....	$1,512.86	$85.50	$201.81	.....	.....	$727.83	$23,526.99	.....	.....
ASSESSABLE COST.													
Miscellaneous work,	$30.43	$2.80	.....	.....	$4.04	.....	$0.60	.....	.....	$1.57	$39.44	.....	.....
Removal of snow and ice,	554.67	.....	.....	.....	73.12	$3.00	7.10	.....	.....	34.94	672.83	.....	.....
Total cost,	$585.10	$2.80	.....	.....	$77.16	$3.00	$7.70	.....	.....	$36.51	$712.27	.....	.....
Grand total, Street Cleaning,	$75,991.09	$17,756.86	$417.08	.....	$11,712.25	$3,026.13	$1,581.37	.....	.....	$4,587.80	$115,072.58	.....	.....
FORESTRY PROPER.													
Planting,	$153.57	$39.08	$88.39	.....	$99.09	$12.97	$0.50	.....	.....	$8.68	$402.28	89	$4.520
Pruning,	2,886.05	313.11	4.00	$24.33	2,509.62	1.50	126.35	.....	.....	163.97	6,028.98	.....	.....
Removing trees,	882.90	34.45	.....	2.70	623.67	37.65	45.95	.....	.....	48.97	1,676.29	51	32.86
Nursery,	626.98	54.60	.....	.75	427.71	25.80	.45	.....	.....	36.59	1,172.88	.....	.....
Census,	372.23	.....	.....	.....	258.88	.....	.....	.....	.....	23.23	654.34	.....	.....
Inspection,	7.56	.....	.....	.....	5.07	1.95	.....	.....	.....	.38	14.96	.....	.....
Fertilizing,	16.38	17.50	.....	.....	10.93	1.35	.....	.....	.....	.95	47.11	.....	.....
Miscellaneous,	17.21	.37	2.28	8.20	11.01	.....	4.90	.....	.....	.54	44.51	.....	.....
Surgery,	388.59	70.88	82.24	1.26	309.69	13.65	53.95	.....	.....	22.02	942.28	....	.....
Total cost,	$5,351.47	$529.99	$176.91	$37.24	$4,255.67	$94.87	$232.10	.....	.....	$305.33	$10,983.58	.....	.....
ASSESSABLE COST.													
Pruning trees,	$6.69	.....	.....	.....	$6.30	.....	$0.70	.....	.....	$0.36	$14.05	.....	.....
Removing trees,	248.63	$10.50	.....	.....	221.89	.....	18.20	.....	.....	14.16	513.38	.....	.....
Total cost,	$255.32	$10.50	.....	.....	$228.19	.....	$18.90	.....	.....	$14.52	$527.43	.....	.....

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CLASSIFICATION OF EXPENSE.—*Continued.*

INSECT CONTROL.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Spraying elm beetle,	$971.84	$103.50	$89.56	$675.98	$648.72	.....	$191.35	.....	$289.09	$56.41	$3,026.45	.....	.....
Spraying browntail moth,	535.29	.....	.....	.....	354.20	$19.95	.....	.....	.....	30.80	940.24	.....	.....
Total cost,	$1,507.13	$103.50	$89.56	$675.98	$1,002.92	$19.95	$191.35	.....	$289.09	$87.21	$3,966.69	.....	.....
Grand total, Forestry,	$7,113.92	$643.99	$266.47	$713.22	$5,486.78	$114.82	$442.35	.....	$289.09	$407.06	$15,477.70	.....	.....
SHOPS.													
Repairing drinking fountains,	$102.07	$3.00	$0.04	$11.95	$11.76	.....	.....	.....	.....	$4.69	$133.51	.....	.....
Total cost,	$102.07	$3.00	$0.04	$11.95	$11.76	.....	.....	.....	.....	$4.69	$133.51	.....	.....
STABLES AND YARDS.													
*Logan street incinerator,	$1,955.72	$176.30	$507.54	$2,765.49	.....	$3.50	$33.86	$9.00	.....	$104.63	$5,556.04	.....	.....
*Remodeling forestry building into barn,	416.00	.....	55.86	286.22	.....	.....	8.75	.....	.....	21.14	782.97	.....	.....
Repairs North End incinerator,	168.97	.....	32.78	302.88	.....	.....	5.50	.....	.....	8.59	518.72	.....	.....
Repairing Logan street incinerator,	5.78	.....	2.85	39.94	.....	.....	.....	.....	.....	.34	48.91	.....	.....
Paving South End yards,	561.20	181.30	190.32	248.39	.....	.....	7.50	.....	$24.00	31.97	1,244.68	.....	.....
†Construction of shed, south end,	728.52	113.25	51.37	794.01	.....	.70	7.20	.....	8.00	40.36	1,743.41	.....	.....
†Acquirement of Merg plant,	290.30	.....	10.06	6.52	.....	3.50	12.00	.....	.....	13.78	336.16	.....	.....
New door Dunn building,	244.37	14.70	60.05	342.80	.....	2.10	4.63	.....	.....	12.62	681.27	.....	.....
Freight platform, Summer street,	414.73	.....	129.60	398.01	.....	.....	20.50	.....	.....	20.90	983.74	.....	.....
Rigging up derrick, South end,	83.35	12.60	60.89	81.52	.....	.....	2.50	.....	.....	4.18	245.04	.....	.....
Total cost,	$4,868.94	$498.15	$1,101.32	$5,265.78	.....	$9.80	$97.44	$9.00	$32.00	$258.51	$12,140.94	.....	.....

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CLASSIFICATION OF EXPENSE.—*Concluded.*

	Cost of Work Performed.												
	Labor, Materials, Equipment, and Other Charges.												
ADMINSTRATIVE AUTOMOBILES.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Mayor's auto,	$1,278.25	.....	$648.59	$224.20	$148.24	.....	.....	.....	.....	....	$2,299.28	....	.....
Municipal auto,	1,115.73	.....	469.00	309.18	128.38	.....	.....	.....	.....	....	2,022.29	....	.....
Total cost,	$2,393.98	.....	$1,117.59	$533.38	$276.62	.....	.....	.....	.....	.....	$4,321.57	.....	.....
SERVICES RENDERED.													
NOT CHARGEABLE TO DEPARTMENTAL COSTS.													
Lines and grades, sidewalks and curbs,	$854.41	.....	$32.05	.....	.....	....	.....	.....	.....	.....	$886.46	....	.....
Surveys, etc., for Board of Public Works,	2,303.83	.....	3.00	$84.70	.....	....	.....	.....	.....	.....	2,391.53	.....	.....
Inspection of Street Permits,	797.11	.....	.....	50.43	.....	....	.....	.....	.....	.....	847.54	....	.....
City Planning Commission,	4.43	.....	.....	.....	.....	....	.....	.....	.....	.....	4.43	.....	.....
Engineering for Law Department,	313.11	.....	13.37	.....	.....	....	$1.50	.....	.....	.....	327.98	.....	.....
Surveys, etc., for City Property Committee,	153.91	.....	.....	.....	.....	.....	4.50	.....	.....	.....	158.41	.....	.....
Survey, etc., all other departments,	466.86	.....	.40	.....	.....	.....	.....	.....	....	.....	467.26	....	.....
Total cost,	$4,893.66	.....	$48.82	$135.13	.....	.....	$6.00	.....	.....	.....	$5,083.61	....	.....
CHARGEABLE TO CAPITAL ACCOUNTS.													
Dwight street widening,	$71.35	$2.25	$1.30	$101.62	$16.07	.....	.....	.....	.....	$3.06	$195.65	....	.....
Fulton street widening,	79.95	29.05	4.20	.....	24.13	.....	.....	.....	.....	3.49	140.82	....	.....
Water street widening,	.64	2.25	.....	16.54	.21	.....	.....	.....	.....	.04	19.68	....	.....
Wayfarers' Lodge,	4,776.81	545.93	659.88	14,182.78	1,225.73	.....	$20.05	....	$60.90	223.73	21,695.81	....	.....
Total cost,	$4,928.75	$579.48	$665.38	$14,300.94	$1,266.14	.....	$20.05	.....	$60.90	$230.32	$22,051.96	.....	.....

*Denotes completion of 1916 work.
†Denotes incomplete work.

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RECAPITULATION OF COST OF WORK PERFORMED.

LABOR, MATERIAL, EQUIPMENT, AND OTHER CHARGES

	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.
Sewers,	$40,333.40	$2,142.99	$18,555.13	$3,467.79	$11,181.11	$1,749.98	$875.39	$67.19	$17.00	$2,141.87	$80,531.85
Garbage,	24,530.12	739.04	62.04	144.07	3,649.74	16,203.98	122.45	.....	.....	1,423.34	46,874.78
Ashes and refuse,	67,597.33	10,603.89	1.31	3,312.46	10,047.16	18,476.50	.....	.....	.....	3,934.58	113,973.23
Highways,	90,121.21	59,132.83	147,764.93	15,593.16	27,407.11	371.38	5,876.40	7,012.45	1,924.45	5,036.92	360,240.84
Bridges,	13,773.99	281.68	1,388.46	13,937.77	3,360.58	11.80	545.23	7.80	134.67	716.13	34,158.11
Sidewalks and curbing,	21,749.45	8,669.48	23,464.68	4,916.44	5,871.38	177.36	379.59	.....	487.25	1,242.95	66,958.58
Sprinkling streets,	4,911.37	2,396.80	2.69	4,791.31	2,498.42	.....	2,200.50	.....	.....	285.76	17,086.85
Oiling,	8,162.72	1,647.62	13,933.69	27.02	690.51	10.80	786.79	.....	.....	186.88	20,446.03
Street cleaning,	75,991.09	17,756.86	417.08	.....	11,712.25	3,026.13	1,581.37	.....	.....	4,587.80	115,072.58
Lighting,	.....	.....	.35	133,881.67	4,014.58	.....	.....	.....	.....	.....	137,896.60
Forestry,	7,113.92	643.99	266.47	713.22	5,486.78	114.82	442.35	.....	289.09	407.06	15,477.70
Shops,	102.07	3.00	.04	11.95	11.76	.....	.....	.....	.....	4.69	133.51
Stables and yards improvements,	4,868.94	498.15	1,101.32	5,265.78	.....	9.80	97.44	9.00	32.00	258.51	12,140.94
Services rendered other departments,	4,893.66	.....	48.82	135.13	.....	.....	6.00	.....	.....	.....	5,083.61
Outside,	998.71	424.35	2,895.09	160.96	265.37	.....	665.83	11.00	17.00	44.06	5,482.37
Administrative autos,	2,393.98	.....	1,117.59	533.38	276.62	.....	.....	.....	.....	.....	4,321.57
Services rendered—chargeable to Capital Accounts,	4,928.75	579.48	665.38	14,300.94	1,266.14	.....	20.05	.....	60.90	230.32	22,051.96
Grand total,	$367,470.71	$105,520.16	$211,685.07	$201,193.05	$87,739.51	$40,152.55	$13,599.39	$7,107.44	$2,962.36	$20,500.87	$1,057,931.11

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REPORT

OF

ENGINEERING DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917.

SPRINGFIELD, MASS., December 27, 1917.

To F. H. Clark, Superintendent of Streets and Engineering, City.

DEAR SIR:—The operations of the Engineering Division for the year 1917 are briefly summarized in the following:—

GENERAL WORK.

As heretofore the division has responded to all the miscellaneous calls of the several other city departments for the service required under the provision of the city ordinances.

The usual time and service have been given to necessary surveys and plans for the Board of Public Works, who, in their advisory capacity to the Mayor and Aldermen and the City Council, require a considerable expenditure of time for the information covered in reports of the board and estimates of cost.

The growth of the city demands increased time to the service of the board from year to year.

The work of the year for the board has involved several important matters, among which the following may be mentioned, and for which orders have been passed by the City Council:—

Main street widening to a general width of seventy-two feet between Central and Locust streets; although this order has not yet been carried, its completion is commonly conceded to be a matter of large interest and assistance to the traveling public.

Willow street widening from State street to Hubbard avenue, and extension southerly to Adams street, with a uniform width of seventy feet. This project, at an estimated cost of $339,405 for land and building damages

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and $24,000 for construction, constitutes with the order for widening Dwight street, between Lyman and State streets, passed in the late season of 1916, a continuous thoroughfare from the Boston and Albany railroad southerly to Adams street, seventy feet in width, and when carried out affords another main thoroughfare for travel northerly and southerly paralleling Main street. It is desirable that this project should ultimately be extended southerly to the important junction formed by the intersection of Mill street, Locust street, Belmont avenue and Fort Pleasant avenue, at which point there is a large concentration of travel of all kinds that may, in part, be diverted northerly through the new thoroughfare recently ordered and commonly referred to as Dwight street extension; but before this can be effected, legislation must be obtained that will enable the City to lay out the thoroughfare through the Emerson Wight Playground between Marble street and Acushnet avenue.

An order has also been passed by the City Council body under the recommendation of the Board of Public Works for the widening of Water street from Bridge street southerly to Court street on the westerly side thirty and one half feet, making the thoroughfare eighty feet wide instead of forty-nine and one half feet; this work, when carried out, is in line with the widenings heretofore effected southerly of the locality mentioned, looking to another thoroughfare paralleling Main street.

The widening of Liberty street between Armory street and the Chicopee line is now under consideration of the Board of Public Works, who are aiming to report upon the matter to the City Council early in the coming year. This widening, if effected, will permit the construction of a double track trolley line to Chicopee Falls instead of the present single tracked line which is by common consent greatly inadequate to provide for the reasonable necessities of public travel in the growing section of the city tributary to Liberty street.

There has been, in addition to the above, a considerable number of orders passed based on report of the Board of Public Works for the usual construction of new sewers, sidewalks and curbing, new work and repairs.

BRIDGES.

Among the more important works of the year concerning bridges may be mentioned, the construction of the new Page Boulevard bridge over the Athol branch of the Boston and Albany railroad, designed and supervised by designing engineer, Harry M. Gray. The structure was built by department forces, under day labor, rather than by contract, and consists of a three-span reinforced concrete structure of the beam and

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slab type, supported by two piers at the bottom of the cut and two sills at either end of the bridge at the tops of the embankments.

The length of the structure is ninety-six feet, having a width of thirty-eight feet, and covers the westerly half of Page boulevard, which is seventy feet wide. The clearance between the two piers is sufficient for the future double tracking of the railroad when required.

The construction has been so designed as to permit the extension of the bridge to the full width of the boulevard, seventy feet, when traffic conditions require and, when so widened, will permit a double tracked trolley line through the center, four lines of vehicle travel, with two sidewalks seven feet in width.

TOPOGRAPHICAL SURVEY.

The Topographical Survey of the surburban part of the City has not progressed as far as was anticipated at the beginning of the year and to the extent of means appropriated with the annual budget, by reason of the difficulty of obtaining men necessary to promote the work.

Considerable further work will therefore be necessary for the completion of the field work.

DEPARTMENT OF LAW.

The usual service has been rendered the Department of Law for plans, descriptions, and data needed for suits at law, also photographs needed as evidence in suits to recover damages from the City through actions of tort.

Following this report is a list of streets made public during the year as well as those widened or relocated.

The opportunity is taken to express appreciation of the courtesies, extended at all times, and the faithful co-operation of assistants.

Respectfully submitted,

C. M. SLOCUM,
Deputy City Engineer.

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STREETS MADE PUBLIC, 1917.

BY ORDER OF THE CITY COUNCIL.

NAME.	LIMITS.	Length in feet.	Width in feet.	Date of City Council's Order.
Walnut court,...	Walnut street to Cemetery avenue,.....	199.2	34	Dec. 27, 1916
New street,.....	Southerly line Sanford street to northerly line State street,.....	257.6	70	Dec. 29, 1916
*Clyde street,....	Plainfield street westerly about 450',.....	461.2	50	Jan. 15, 1917
*Silver street,....	Present easterly terminus easterly to Hamburg street,.....	371.2	50	Jan. 23, 1917
*Hamburg street,	Present southerly terminus southerly to southerly line of Silver street,	185.1	50	Jan. 23, 1917
Newbury street,.	Carew street southerly to Sherman avenue,.....	1,012.6	50	Jan. 23, 1917
Banbury street,..	Junction Stockman street proposed to northerly line Hastings street,...	336.2	50	Jan. 23, 1917
Phœnix terrace,..	Easterly end Phœnix street northeasterly to Newbury street,.....	1,367	100	Jan. 23, 1917
Freeman terrace,.	Carew street to Sherman avenue,.....	1,024	50 & 100	Jan. 23, 1917
Hastings street,..	Kendall avenue to Newbury street,.....	1,347	50	Jan. 23, 1917
Stockman street,.	Liberty street southerly and easterly to Newbury street,.....	1,300.5	50	Jan. 23, 1917
Kendall street,...	Liberty street southerly to southerly line Sherman avenue,.....	910	50	Jan. 23, 1917
*Leonard street,.	Franklin street northerly about 415',.....	415.3	50	Feb. 20, 1917
Belvidere street,.	Belmont avenue southerly to northerly line Fountain place,.....	615	50	Mar. 5, 1917
*Center street,..	Oak Grove avenue northerly to Acorn street,...	1,017	50	Mar. 5, 1917
Converse street,.	Sumner avenue northerly to Vermont street,.....	435.4	40	Mar. 5, 1917
Wendell place,...	Main street easterly to easterly end,.....	464.6	40	Mar. 13, 1917
*Dunmoreland street extension	Westford circle to King street,.....	545	50	April 27, 1917

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STREETS MADE PUBLIC, 1917.—*Continued.*

NAME.	LIMITS.	Length in feet.	Width in feet.	Date of City Council's Order.
College street,.....	Northerly end College street (300' northerly of Shattuck street) northerly to southerly line of Acorn street,.....	860	50	June 25, 1917
Herman street,.....	Sumner avenue northerly to Vermont street,	540	50	June 25, 1917
Winter street,.....	Chestnut street easterly to Pearl street place,..	705	40	July 2, 1917

NOTE: The above streets are not considered public until entry has been made thereon by the Street Department.

*Entry made by Street Department in 1917.

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STREETS RELOCATED AND WIDENED, 1917.

BY ORDER OF THE CITY COUNCIL.

NAME.	LIMITS.	Length in feet.	Width in feet.	Date of City Council's Order.
Dwight street widening,	Lyman to Sanford street,	2,183.9	70	Dec. 29, 1916
Tinkham road relocation,	Wilbraham road southerly and easterly to Wilbraham town boundary line,	5,998.0	50	April 24, 1917
Boston road alteration,	At first angle easterly of Parker street,	407.0	66	May 14, 1917
Main street widening and relocation,	Easterly side, Central street to point between Wendell avenue and Rutledge avenue,	1,446.0	east side	July 2, 1917
	Westerly side, from present angle in westerly line Main near Lombard street southerly to northerly line Elmwood street,	1,014.0	west side 72	
Water street widening,	Westerly side, north line Court Square extension northerly to southerly line Bridge street,	985.0	80	Aug. 6, 1917
Noel street alteration,	Alteration in width from Oakland street westerly to point near top of hill,	725.0	60 to 50	Nov. 19, 1917
Plumtree road alteration,	At and near to sharp turn westerly of and near to crossing of South branch of Mill river,	414.0	66	Nov. 28, 1917
Longhill street relocation,	From point near Edgeland street southerly to angle near to and northerly of Warner street,	918.0	66	Aug. 13, 1917

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REPORT

OF THE

STREET DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917.

Mr. F. H. Clark, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—As is customary, it is my privilege to submit to you the annual report of the Street Division for the fiscal year closing November 30, 1917.

The department has been able to overcome the handicap of an inadequate labor supply, of embargoes and car shortages, of great difficulties in the procuring of material, and, despite many unusual conditions occasioned by the war, shows an increase in work accomplished over that of the preceding year.

The 1917 expenditure for the Highway Division, which exceeds that of 1916 by about $20,000, has resulted in a very material increase in the mileage of paved streets. Permanent pavements have been laid on three streets, a distance of one and one third miles; bituminous concrete on thirteen streets, a distance of three and three fifths miles; bituminous macadam on forty streets, or nine miles. This, together with other miscellaneous pavements that have been laid during the season, makes a total of fifteen miles of paving work that has been completed this year. In addition to this work it should be mentioned that there are fifteen streets, two and two fifths miles in length, which are within twenty-five per cent of being complete. This is a very substantial gain over that of the preceding year, and while the cost of labor and material has been measurably increased, the increase in the unit cost of the work has not been proportionate.

Largely responsible for the progress of the division is the asphalt plant at the City Yard. Mixing over 86,000 yards of pavement, an increase of 23.6 per cent over its output of last year, it exceeded what was thought to be the capacity of the plant. It was largely due to the

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work of this plant that the department was able to complete in such record time the construction of nearly a mile of grit asphalt on Plainfield street, one of the most necessary and important jobs undertaken by the department this season.

Although the construction of wood block and concrete pavements was decreased somewhat, this has been offset by the unusually large amount of macadam and asphalt construction which triples that of last year. There has also been a large increase in the amount of bituminous concrete laid.

The construction of the new Page Boulevard bridge, in accordance with the design of the Engineering Division, has been the most important undertaking in the Bridges Division this season. This practically completes what will probably be an important line of travel between the city and its eastern sections. The division had also hoped to have completed the relaying of new decking on the North End bridge, but the failure of the contractor to deliver timber made this impossible. The work will be again undertaken in the spring.

As was contemplated at the beginning of the season, the department undertook and completed a large amount of sidewalk construction. Old worn-out brick and tar walks are rapidly being relaid with Portland cement concrete. There still remain, however, in many localities similar walks that are not only an inconvenience but a menace to the safety of pedestrians. These should be relaid as soon as circumstances permit.

There has been a small increase in the cost of dust laying, but only proportionate to the increase in growth of the city.

The expenditure for street cleaning would show a slight increase were it not for the fact that the preceding year's total includes the cost of the removal of an unusual amount of snow.

I submit herewith tables showing unit costs and expense of the various functions of the division.

I wish also to call attention to the continued efficient services of the employees of the division and to thank you and them for the valued co-operation that has so aided in the success of the division for the year just passed.

Respectfully submitted,

A. H. WOODWARD,
Deputy Superintendent of Streets.

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STREET CONSTRUCTION.

PAVING.

Street.	Limits.	Materials.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
†Berkshire avenue,	West side, Pine Point to Bay street,	Mixed concrete,	.....	.....	$0.90	$4.72	$27.04	.....
*Chestnut st.,	Everett to Carew,	Wood block,	359.0	1,245.0	24.44	179.25	3,252.46	$3.48
Hayden alley,	.....	Mixed concrete,	182.6	202.4	12.24	67.32	445.74	2.21
*Hickory st.,	Walnut st. to Eastern av.,	Brick,	792.0	1,644.0	94.94	522.17	5,047.75	3.71
*Oak st., I. O.,	Main to Worcester,	Grit asphalt,	364.0	1,684.0	5.07	37.26	649.90	2.07
†Plainfield st.,	West st. to Wason ave.,	Grit asphalt,	.....	.....	439.15	2,305.55	32,515.54	.....
St. James ave.,	Between point 175 ft. west of Dartmouth st. and 175 ft. east of Princeton st.,	Grit asphalt,	1,182.0	6,198.0	147.95	813.73	10,409.66	1.68
Totals,	.....	.....	.....	.....	$724.69	$3,930.00	$53,148.18	.....

*Denotes completion of 1916 work. Unit cost includes 1916 work.
†Denotes incomplete work.

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TABLE OF PERMANENT PAVEMENTS

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Armory street,	Federal to Magazine,	Grit asphalt,	798	2,775	1916
Armory street,	Worthington to N. Y., N. H. & H. R. R.,	Granite blocks on concrete,	878	3,044	1914
Barnes street,		Bitulithic,	178	552	1909
Bay street,	Catharine to N. Y., N. H. & H. R. R.,	Grit asphalt,	1,295	4,778	1914
Belmont avenue,	At Locust and Mill streets,	Brick,	——	133	1912
Belmont avenue,	Mill street to Bellevue avenue,	Granite blocks on concrete,	1,702	4,507	1913
Belmont avenue,	Mill st. to Bellevue av., between rails,	Granite blocks on concrete,	——	2,260	1912
Belmont avenue,	Bellevue av. to Hall st., between rails,	Brick,	——	1,211	1901
Belmont avenue,	Hall to Oakland, between rails,	Brick,	——	914	1903
Belmont avenue,	Bellevue avenue to "X,"	Grit asphalt,	3,444	12,897	1914
Birnie avenue,	Hooker street, northerly,	Brick,	145	483	1906
Bliss street,	Main to Water,	Bitulithic,	963	3,104	1914
Boston road,	Berkshire avenue, easterly, 1 mile,	Mixed concrete,	5,280	12,907	1915
Boston road,	End of 1915 work to Wilbraham line,	Mixed concrete,	12,771	31,217	1916
Bradford street,	Main to Plainfield,	Wood blocks,	51	192	1915
Bridge street,	Chestnut to Davis alley,	Asphalt blocks,	195	712	1910
Bridge street,	Davis alley to Dwight,	Wood blocks,	122	446	1910
Bridge street,	Dwight to Barnes,	Sheet asphalt,	439	1,655	1915
Bridge street,	Barnes to Main,	Bitulithic,	251	870	1900
Bridge street,	Broadway to Water,	Bitulithic,	252	895	1911
Carew street,	Intersection of Chestnut,	Brick,	50	229	1914
Catharine street,	State to Bay,	Brick,	1,722	5,691	1900
Charter avenue,	Walnut to Oak street,	Mixed concrete,	629	1,084	1915
Chestnut street,	Pearl to Bridge,	Bitulithic,	201	952	1912
Chestnut street,	Linden to Everett,	Wood blocks,	419	1,438	1909
Chestnut street,	Everett to Carew,	Wood blocks,	359	1,245	1917
Chestnut street,	Carew to Allendale,	Brick,	1,015	3,432	1900
Chestnut street,	Allendale street to Jefferson avenue,	Wood blocks,	842	2,881	1916

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TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Court street,	Main street to Court Square avenue,	Rock asphalt,	317	1,149	1897
Court street,	Main street to Court Square avenue,	Brick,	——	174	1897
Court street,	Main street to Court Square avenue,	Brick,	——	128	1907
Court street,	Court Square avenue to Water street,	Bitulithic,	617	2,699	1911
Court Square avenue,	Court to Elm street,	Sheet asphalt,	193	503	1897
Court Square avenue,	Court to Elm street,	Brick,	——	330	1897
Cross street,	Main to Willow,	Wood blocks,	316	897	1913
Cypress street,	At Fulton street,	Granite blocks on concrete,	31	115	1915
Dwight street,	State to Lyman,	Brick,	2,324	9,905	1896
Dwight street,	Lyman to Liberty,	Brick,	399	1,955	1915
East Court street,	Main to Market,	Rock asphalt,	117	297	1900
East Court street,	Market to Dwight,	Wood blocks,	372	941	1912
Eastern avenue,	State street to Wilbraham road,	Bitulithic,	84	340	1913
Elm street,	Main to Court Square avenue,	Sheet asphalt,	343	949	1897
Elm street,	Main to Court Square avenue,	Brick,	——	330	1897
Emery street,		Wood blocks,	611	2,068	1914
Ferry street,	Main street to foot of hill,	Bitulithic,	1,389	3,597	1910
Ferry street,	Foot of hill to Chestnut,	Granite blocks,	104	265	1915
Fulton street,	Cypress to Auburn,	Granite blocks,	1,505	9,041	1916
Harrison avenue,	Main to Market street,	Sheet asphalt,	210	816	1916
Harrison avenue,	Market to Dwight street,	Sheet asphalt,	377	1,439	1915
Harrison avenue,	Dwight to Chestnut street,	Granite blocks,	232	957	1915
Hayden alley,	Hayden to Andrew street,	Mixed concrete,	183	292	1917
Hickory street,	Walnut to Eastern avenue,	Brick,	792	1,644	1917
Hillman street,	Dwight to Chestnut,	Granite blocks,	304	919	1915
Hubbard avenue,	Main to Willow street,	Wood blocks,	382	722	1915
King street,	Street Railway turnout,	Wood blocks,	317	1,023	1908

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TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Liberty street,	Main street, easterly 311 feet,	Bitulithic,	311	1,335	1911
Liberty street,	Extension to foot of hill,	Wood blocks,	799	3,366	1915
Liberty street,	Foot of hill to Chestnut street,	Granite blocks,	306	1,272	1915
Liberty street,	Chestnut to Cass,	Brick,	1,399	4,571	1900
Liberty street,	Cass street to Heywood avenue,	Brick,	1,147	3,971	1901
Liberty street,	Heywood avenue to Armory street,	Brick,	2,030	7,260	1916
Locust street,	At watering trough,	Brick,	——	50	1913
Locust street,	Main to Mill, between tracks,	Brick,	——	1,135	1913
Locust street,	Main to Mill,	Bitulithic,	826	3,153	1913
Lyman street,	East and west of Dwight street, between tracks,	Granite blocks,	——	297	1915
Magazine street,	Worthington to Lincoln,	Grit asphalt,	961	3,992	1914
Main street,	Locust to Marble,	Brick,	840	4,381	1897
Main street,	Marble to William,	Brick,	1,762	8,307	1896
Main street,	Bliss to William, between tracks,	Wood blocks,	1,150	1,854	1906
Main street,	Bliss to Park, east side,	Wood blocks,	——	971	1916
Main street,	Park to William, east side,	Wood blocks,	——	3,635	1917
Main street,	Bliss to William, west side,	Wood blocks,	——		
Main street,	Bliss to State,	Brick,	241	1,355	1893
Main street,	State to Worthington,	Wood blocks,	1,899	10,798	1904
Main street,	Worthington to Hampden, west side,	Wood blocks,	382	1,183	1904
Main street,	Worthington to Lyman, east side,	Wood blocks,	——	1,137	1917
Main street,	Hampden to Lyman, west side,	Wood blocks,	153	600	1903
Main street,	Lyman to Liberty,	Wood blocks,	484	2,780	1903
Main street,	Liberty to Sharon, east side,	Wood blocks,	453	1,135	1903
Main street,	Liberty to Sharon, west side,	Wood blocks,	——	1,487	1907
Main street,	Sharon to Franklin,	Wood blocks,	509	2,103	1907
Main street,	near Franklin, east side,	Brick,	36	144	1907

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TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Main street,	Franklin to Carew, east side,	Brick,	1,302	4,605	1897
Main street,	Franklin to Greenwood, bet. tracks,	Brick,	——	360	1914
Main street,	Emery to Seventh, west side,	Wood blocks,	1,105	3,203	1915
Main street,	Clinton to Sargeant, west side, between tracks,	Wood blocks,	——	511	1915
Main street,	Clinton to Carew, west side, between tracks and "Green,"	Concrete,	——	217	1915
Main street,	Seventh to Sargeant, west side,	Grit asphalt on old brick,	350	941	1914
Main street,	Crossing opposite Auburn street,	Brick,	——	163	1903
Main street, I. O.,	305 feet west of Oak street to east line of French Church,	Grit asphalt,	1,362	7,098	1915
Maple street,	North line of Avon place to Central street,	Grit asphalt,	242	1,028	1915
Mill street,	Locust street, easterly,	Brick,	——	511	1913
New street,		Mixed concrete,	378	925	1916
North street,	Liberty to Carew,	Bitulithic,	2,246	11,601	1914
North Main street,	Carew to Morgan,	Wood blocks,	789	4,194	1915
North Main street,	Morgan to Bancroft,	Wood blocks,	879	4,544	1909
North Main street,	Bancroft to Calhoun,	Wood blocks,	839	4,210	1910
North Main street,	Calhoun to Grove,	Wood blocks,	673	3,466	1911
North Main street,	Grove to Thomas,	Wood blocks,	691	2,536	1912
North Main street,	Grove to Thomas, between rails,	Wood blocks,	——	1,012	1913
North Main street,	Thomas street to Chicopee line,	Wood blocks,	3,266	16,151	1913
North Main street,	At Wason avenue,	Brick,	——	196	1908
Oak street, I. O.,	Main to south line of Worcester street,	Grit asphalt,	364	1,684	1916
Orange street,	Intersection of White street,	Brick,	85	370	1914
Park street,	Main to Willow,	Wood blocks,	326	1,014	1915

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TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Plainfield street,	Sargeant street, westerly,	Brick,	1,456	8,690	1902
Plainfield street,	Extension to B. & M. R. R.,	Brick,	254	1,559	1916
Plainfield street,	B. & M. R. R., northerly (includes 188 feet in West street),	Granite blocks,	396	3,073	1916
Plainfield street,	Granite blocks to Wason avenue,	Grit asphalt,	4,939	19,477	1917
Post Office square,	Worthington to Fort street,	Mixed concrete,	80	111	1914
Pynchon street,	Main to Water,	Bitulithic,	870	2,866	1911
Railroad street,	Water street, easterly,	Granite blocks,	326	1,246	1915
Sanford street,	Main to Market,	Sheet asphalt,	102	207	1900
Sanford street,	Market to Dwight,	Wood blocks,	371	1,324	1912
Spring street,	State to Worthington,	Bitulithic,	1,820	6,133	1913
Spring street,	Worthington to Lyman,	Granite blocks,	507	1,739	1913
State street,	Water street, easterly,	Wood blocks,	360	1,321	1914
State street,	Main street, westerly,	Wood blocks,	598	2,357	1909
State street,	Main to Dwight,	Wood blocks,	478	2,403	1908
State street,	At Dwight street,	Wood blocks,	——	79	1914
State street,	Dwight to Maple,	Granite blocks,	344	1,936	1914
State street,	Walnut street, westerly,	Wood blocks,	527	4,063	1914
State street,	Federal to Oak,	Brick,	847	4,590	1897
State street,	At Walnut street,	Brick,	——	278	1908
State street,	At St. James avenue,	Brick,	——	183	1907
State street,	Oak to Stebbins,	Wood blocks,	.762	3,031	1909
State street,	Stebbins to Terrence,	Wood blocks,	386	1,497	1910
State street,	Terrence to Westminster,	Wood blocks,	639	3,256	1911
State street,	Oak to Westminster, widening to north and south curb, from Oak to Terrence, and between tracks Terrence to Westminster,	Wood blocks,	——	4,854	1913

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TABLE OF PERMANENT PAVEMENTS—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds	Year Laid.
State street,	Westminster to Buckingham,	Wood blocks,	360	2,520	1913
State street,	Buckingham to Sherman,	Bitulithic,	477	5,596	1913
State street,	Sherman to Catharine,	Grit asphalt,	190	782	1915
State street,	Catharine to N. Y., N. H. & H. R. R.,	Wood blocks,	633	3,112	1915
State street,	N. Y., N. H. & H. R. R. to Amaron street,	Wood blocks,	1,106	4,271	1912
State street,	N. Y., N. H. & H. R. R. to Amaron, between rails,	Wood blocks,	——	1,490	1913
State street,	Amaron to Pine Point,	Hassam concrete,	6,860	36,871	1914
St. James avenue,	175 feet west of Dartmouth to 175 feet east of Princeton,	Grit asphalt,	1,182	6,198	1917
St. James avenue,	N. Y., N. H. & H. R. R. to B. & A. R. R.,	Hassam concrete,	1,945	9,195	1913
St. James avenue,	B. & A. R. R. to Chicopee line,	Mixed concrete,	6,547	13,094	1915
Stockbridge street,	Main to Willow,	Wood blocks,	317	770	1914
Summer street,	Armory street, westerly,	Old granite blocks,	376	1,306	1914
Sumner avenue,	Oakland street to "X," between tracks,	Grit asphalt,	——	2,073	1915
Sumner avenue,	Oakland street to "X," south side,	Grit asphalt,	1,244	3,053	1915
Sumner avenue,	Intersection of Belmont avenue,	Brick,	——	83	1914
Taylor street,	Dwight to Chestnut,	Wood blocks,	416	1,432	1914
Townsley avenue,		Bitulithic,	142	214	1908
Union street,	Main to Willow,	Wood blocks,	331	1,110	1914
Vernon street,		Bitulithic,	821	2,047	1911
Walnut street,	State to Union, west side,	Brick,	——	721	1899
Walnut street,	Union to Pine, west side,	Brick,	——	1,446	1900
Walnut street,	Front of Engine house,	Wood blocks,	——	98	1914
Walnut street,	State to Pendleton avenue, east side,	Wood blocks,	1,521	2,168	1914
Walnut street,	State to Pendleton avenue, between rails,	Wood blocks,	——	753	1913

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TABLE OF PERMANENT PAVEMENTS—*Concluded.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid
Walnut street,	Pendleton avenue to King street, between rails,	Grit asphalt,	——	246	1915
Walnut street,	Pendleton avenue to Six Corners,	Wood blocks,	2,068	6,573	1915
Walnut street,	Six Corners to top of hill,	Grit asphalt,	1,066	3,485	1914
Water street,	Hampden to Cypress,	Granite blocks,	879	5,971	1915
West street,	North of Park,	Grit asphalt,	437	1,332	1916
West street,	South of Park,	Grit asphalt,	106	881	1916
West street,	At B. & M. Bridge (see Plainfield street),	Granite blocks,			
White street,	Near Allen to Orange, between rails,	Brick,	1,610	2,400	1902
Wilbraham road,	Winchester street to N. Y., N. H. & H. R. R.,	Bitulithic,	657	3,255	1913
William street,	Main to Dale,	Mixed concrete,	593	1,898	1914
Willow street,		Wood blocks,	1,189	3,443	1912
Worthington street,	Water street to Broadway,	Wood blocks,	299	1,061	1909
Worthington street,	Main to Dwight,	Sheet asphalt on old brick,	747	2,590	1917
Worthington street,	Dwight street to Fairbanks place,	Brick,	1,060	2,972	1901
Worthington street,	Chestnut street to Fairbanks place, north side,	Wood blocks,	——	897	1917
*Worthington street,	Fairbanks place to east line of Spring street,	Brick,	269	1,003	1903
Worthington street,	At Sackett place,	Wood blocks,	265	886	1908
Worthington street,	Federal to Armory,	Wood blocks,	374	1,312	1908

*Relaid on north side with old material, 1917.

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RECAPITULATION.

Wood blocks,	5.91 miles
Brick,	3.93 miles
Mixed concrete,	5.01 miles
Bitulithic,	2.29 miles
Grit asphalt,	3.34 miles
Hassam,	1.67 miles
Granite blocks,	1.49 miles
Sheet asphalt,	.40 miles
Sheet asphalt on brick,	.14 miles
Grit asphalt on brick,	.07 miles
Asphalt blocks,	.04 miles
Total,	24.29 miles

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STREET CONSTRUCTION.

BITUMINOUS MACADAM.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
†Abbe avenue,	Plainfield street to river,	....	....	$32.52	$170.74	$2,420.47	....
Burlington street,		352	1,096	16.73	92.02	1,283.00	$1.17
Carew street,	"Driscoll's by-pass,"	700	4,499	58.19	320.04	5,408.27	1.20
Centre street, I. O.,	Cedar street easterly,	382	1,273	20.74	108.89	1,093.01	.86
†Center street,	Oak Grove avenue to Acorn street,	....	....	18.91	99.28	1,793.10	....
*Chapel street,	Eastern avenue easterly,	443	1,397	5.50	30.25	568.53	.84
†Clyde street,	Plainfield street southerly,	....	....	15.35	80.59	1,333.59	....
*Collins street,		519	1,571	16.16	88.88	1,333.61	.86
*Colton street,	Union to Beacon,	848	2,627	9.66	53.13	998.22	1.39
†Coomes street,	Leete street to Edgeland avenue,	....	....	17.00	89.25	1,314.95	....
†Crane street,	Franklin street northerly 431 feet,	....	....	25.00	131.25	1,373.66	....
†Duryea street,	Page boulevard to Eureka street,	....	....	.12	.63	4.07	....
Genesee street,	Liberty street to Warwick avenue,	644	2,423	40.74	224.07	3,228.00	1.33
†Goodrich street,	Liberty street northerly 220 feet,	....	....	.12	.63	4.07	...
Gordon street,		541	2,066	16.33	89.81	1,568.81	.76
†Governor street,	Penacook avenue to Armory street,	....	....	50.72	266.28	3,555.68	....
†Hamburg street,	Extension to Silver,	....	....	4.42	23.21	380.16	....
Hancock street,	Clark to Central,	510	2,024	16.60	87.16	1,988.67	.98
King street,	N. E. R. R. to Westford avenue,	684	2,396	22.60	124.30	1,580.42	.66
Knox street,		1,123	3,839	56.19	295.01	4,007.72	1.04
Ladd street,	Eastern avenue to Logan street,	499	1,772	18.31	100.70	1,461.47	.82
†Laurel avenue,		....	....	22.71	119.23	1,894.61	....
†Leonard street,	Franklin northerly 415 feet,	....	....	17.32	90.93	1,407.35	....

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STREET CONSTRUCTION.

BITUMINOUS MACADAM.—CONTINUED.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
*Logan street,	Alden to King,	1,167	3,980	$22.18	$121.99	$1,950.81	$1.28
Longhill street,	Cherryvale avenue to Washington boulevard,	540	3,404	36.81	202.46	2,707.72	.80
Longview street,		551	1,917	54.64	286.86	3,892.63	2.03
†Marshall place,		....	....	29.87	156.83	2,288.59	....
†Moore street,	Plainfield street to the river,	....	....	13.94	73.18	1,712.87	....
†Noel street,	Mill to Oakland,	....	....	13.35	70.09	811.56	....
*Orchard street,		383	1,247	.68	4.95	160.91	1.55
Orlando street,	Belmont avenue to Sumner avenue,	735	2,250	22.37	123.03	2,385.31	1.06
†Page boulevard,	Westinghouse place to Berkshire avenue,	....	....	265.23	1,392.46	20,209.93	....
Pease street,		382	1,468	26.36	144.98	1,629.30	1.11
Pecousic avenue,	Main to Agawam street,	1,285	3,436	84.46	464.53	6,349.36	1.85
*Quincy street,	Eastern avenue to Colton street	274	848	9.67	53.19	799.66	1.02
Riverview terrace,	Fort Pleasant avenue to Maplewood terrace,	826	3,336	47.87	263.28	3,528.64	1.06
Shattuck street,		1,121	3,707	50.31	276.70	3,755.08	1.01
†Shefford street,	Springfield to Caseland,	....	....	7.46	41.03	1,056.19	....
†Silver street,	Extension to Hamburg,	....	....	12.61	66.20	682.54	....
Sorrento street,	Sumner avenue to Alderman street,	799	2,685	27.51	151.31	2,182.00	.81
†St. James boulevard,	Carew street to Page boulevard,	....	....	24.09	126.47	1,447.02	....
*Talcott avenue,	Fisk avenue to Plainfield street,	721	3,134	1.70	12.49	310.39	1.19
*Tyler street,	Eastern avenue to Colton street,	275	892	6.85	37.67	715.04	.88

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BITUMINOUS MACADAM—CONTINUED.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Wait street,	Armory street to Penacook avenue,	1,428	3,808	$44.30	$243.65	$3,825.59	$1.00
Washington street,	Dickinson street to Commonwealth avenue,	523	1,847	20.17	110.93	1,829.34	.99
†White street,	Belmont avenue to Longmeadow line,	....	....	81.87	429.82	6,406.52	....
Totals,		13,625	49,246	$1,406.24	$7,540.38	$110,638.44	....

*Denotes completion of 1916 work. Unit cost includes 1916 work.
†Denotes incomplete work.

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STREET CONSTRUCTION.

BITUMINOUS CONCRETE.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Colton street,	Wilbraham road to Union street,	772	1,970	$40.66	$223.63	$3,715.56	$1.87
George street,		358	1,117	14.35	78.93	1,448.95	1.30
Oak and Walnut streets,	At junction,	27	91	2.88	15.12	172.82	1.90
Totals,		1,157	3,178	$57.89	$317.68	$5,337.33	....

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STREET CONSTRUCTION.

WATER-BOUND MACADAM.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Arch street,	and Burnham's driveway,	146	262	$21.80	$114.45	$704.58	$2.69
*†Longhill street,		....	....	72.68	381.57	2,771.20	....
Worthington street,	Kibbe Hollow (washout),	....	....	176.48	926.26	8,670.63	....
Totals,		....	....	$270.91	$1,422.28	$12,146.41	....

FENCES.

Parker street,		....	....	$0.79	$4.15	$23.70	....

*Denotes completion of 1916 work.
†Denotes incomplete work.

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STREET CONSTRUCTION.

PAVING RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Wood block,	.....	.....	Incomplete	$3,252.46
Brick,	.....	.....	Incomplete	5,647.75
Asphalt,	.....	.....	Incomplete	43,575.19
Mixed concrete,	.....	.....	Incomplete	672.78
Total,	.....	.....	.....	$53,148.18

MACADAM RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Water-bound,	146	262	$2.69	$704.58
Water-bound, incomplete,	.....	.....	.....	2,771.20
*Water-bound, washout,	.....	.....	.....	8,670.63
Bituminous,	13,625	49,246	1.09	53,704.34
Bituminous, completion of 1916,	.....	.....	.....	6,837.17
Bituminous, incomplete,	.....	.....	.....	50,096.93
Total,	.....	.....	.....	$122,784.85

BITUMINOUS CONCRETE RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Total,	1,157	3,178	$1.68	$5,337.33

FENCE RECAPITULATION.

	Length in feet.	Cost per lineal foot.	Cost.
Total,	.....	.....	$23.70

*Denotes completion of 1916 work.

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TABLE OF SURFACE PAVEMENT.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Abbe avenue,	Bridge approach,	Water-bound macadam,	872	2,325
Abbe avenue,	Fisk avenue to Plainfield street,	Bituminous macadam,	658	2,217
Acushnet avenue,		Water-bound macadam,	1,088	3,385
Adams street,		Water-bound macadam,	1,003	3,326
Agawam street,		Bituminous concrete,	230	809
Albany street,	Land of Hampden Paint Co. to Glen road,	Bituminous macadam,	636	1,484
Albemarle street,		Bituminous macadam,	1,493	4,977
Alden street,	Walnut street to Eastern avenue,	Bituminous concrete,	1,349	4,533
Alden street,	Eastern avenue to railroad,	Tar top,	715	2,453
Alden street,	Railroad, easterly,	Water-bound macadam,	660	2,617
Alderman street,		Bituminous macadam,	1,325	5,444
Alexander street,		Water-bound macadam,	414	1,380
Alfred street,		Water-bound macadam,	490	1,635
Allen street,	Mill street to N. E. R. R.,	Water-bound macadam,	4,017	*13,798
Allendale street,		Water-bound macadam,	663	2,094
Amaron street,		Bituminous macadam,	408	1,475
Amherst street,	Harvard to Monmouth,	Water-bound macadam,	1,233	4,069
Andrew street,	State to Dawes,	Water-bound macadam,	1,323	4,228
Arbor street,		Water-bound macadam,	437	1,222
Arch street,	Main street, westerly,	Water-bound macadam,	410	1,366
Arch street,	Extension to Birnie avenue,	Bituminous macadam,	293	1,002
Armory street,	N. Y., N. H. & H. R. R. to B. & A. R. R.,	Water-bound macadam,	195	650
Armory street,	B. & A. R. R. to Napier street,	Bituminous macadam,	294	1,097
Armory street,	Napier street to top of hill,	Water-bound macadam,	945	2,909
Armory street,	Top of hill to Liberty street,	Bituminous macadam,	386	1,272
Armory street,	Liberty to Carew,	Bituminous concrete,	1,561	5,351
Armory street,	Carew to Springfield,	Bituminous macadam,	4,267	14,406
Ashley street,		Water-bound macadam,	1,378	4,592

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Ashmun street,	Central to Adams,	Bituminous macadam,	266	904
Atwater terrace,		Water-bound macadam,	1,000	3,333
Auburn street,		Water-bound macadam,	787	1,942
Autumn street,		Bituminous concrete,	206	531
†Avon place,		Water-bound macadam,	711	2,924
Bailey square,	See Locust street,	Water-bound macadam,	——	——
Bancroft street,	Main to North,	Bituminous macadam,	884	2,976
Bancroft street,	North to Chestnut,	Water-bound macadam,	551	1,889
Banks place,		Water-bound macadam,	225	536
Bartlett street,		Bituminous macadam,	571	2,210
Bay street,	St. James avenue to Catharine street,	Bituminous concrete,	2,772	9,718
Bay street,	N. E. R. R. to Cambridge street,	Water-bound macadam,	416	1,387
Bay street,	Cambridge to Sycamore,	Bituminous macadam,	684	2,360
Beaumont street,	Dickinson street to Belmont avenue,	Water-bound macadam,	689	2,295
Beech street,		Water-bound macadam,	528	1,303
Beechwood street,	Sumner avenue to Spruceland avenue,	Water-bound macadam,	501	1,670
Belmont avenue,	Sumner avenue to White street,	Bituminous macadam,	3,634	19,434
Belmont place,		Water-bound macadam,	221	669
Benton street,		Bituminous macadam,	1,485	5,131
Berkeley street,		Water-bound macadam,	453	1,510
Berkshire avenue, I.O.,	Chestnut street, westerly, south side of tracks,	Glutrin-bound macadam,	668	1,128
Berkshire avenue, I.O.,	Chestnut street, westerly, south side of tracks,	Water-bound macadam,	618	1,030
Berkshire avenue, I.O.,	Chestnut street, westerly, north side of tracks,	Glutrin-bound macadam,	2,167	3,649
Berkshire avenue, I.O.,	State to Oak street, between tracks,	Water-bound macadam,	——	**31,291
Berkshire street, I.O.,	At Chestnut,	Water-bound macadam,	75	1,124
Berkshire street, I.O.,	Chestnut to Oak,	Bituminous macadam,	1,325	5,409
Birnie avenue,	Plainfield to Greenwich,	Bituminous macadam,	1,667	5,589
Birnie avenue,	Greenwich street to Wason avenue,	Bituminous concrete,	3,419	14,328

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Blake Hill,		Water-bound macadam,	347	628
Bliss street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	266	852
Bloomfield street,		Bituminous macadam,	1,939	6,614
Bond street,	Main street to foot of hill,	Tar top,	1,520	5,076
Bond street,	Foot of hill to Chestnut street,	Water-bound macadam,	49	154
Bowdoin street,	St. James avenue to Lincoln street,	Bituminous concrete,	253	945
Bowdoin street,	Lincoln street to Ingersoll grove street,	Water-bound macadam,	1,691	5,532
Bowles street,	Bay to McKnight,	Water-bound macadam,	750	2,500
Bowles street,	McKnight to Pease,	Bituminous macadam,	400	1,331
Boylston street,		Water-bound macadam,	864	1,921
Bradford street,	Plainfield to Fulton,	Water-bound macadam,	741	2,472
Bridge street,	Main street, westerly 493',	Bituminous concrete,	493	1,746
Bridge street,	Water street to Toll bridge,	Granite blocks on sand,	249	713
Broad street,		Water-bound macadam,	959	3,177
Broadway,		Bituminous macadam,	705	3,219
Brookline avenue,		Water-bound macadam,	615	2,050
Brown street,		Bituminous macadam,	508	1,687
Bryant street,		Bituminous macadam,	897	2,990
Buckingham place,		Water-bound macadam,	275	916
Buckingham street,		Water-bound macadam,	2,006	6,678
Burlington street,		Bituminous macadam,	352	1,096
Burr street,		Bituminous macadam,	840	2,339
Butler street,		Water-bound macadam,	1,525	2,885
Byers street,	State to Frost,	Water-bound macadam,	480	1,193
Calhoun street,		Water-bound macadam,	1,129	3,435
Cambridge street,		Bituminous macadam,	1,564	4,899
Carew street,	Main to Chestnut,	Bituminous macadam,	1,620	5,463
Carew street,	Chestnut to near Bartlett,	Water-bound macadam,	998	2,209

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Carew street,	"Driscoll's by-pass,"	Bituminous macadam,	700	4,499
Carew street,	Armory street, westerly,	Bituminous macadam,	704	2,382
Carew street,	Armory to Liberty,	Bituminous macadam,	1,632	7,382
Cass street,		Water-bound macadam,	1,762	5,407
Caseland street,		Bituminous macadam,	1,154	5,419
Catharine street,	Bay to Dartmouth,	Water-bound macadam,	150	493
Cedar street,		Tar top,	1,725	5,992
Central street,	Main to Ashmun,	Bituminous concrete,	885	2,809
Central street,	Ashmun to Maple,	Water-bound macadam,	476	1,285
Central street,	Maple to Mill,	Water-bound macadam,	4,018	10,023
Central street,	Cedar to Mill,	Water-bound macadam,	——	**2,705
Centre street, I.O.,	Cedar street, easterly,	Bituminous macadam,	382	1,273
Chapel street,		Bituminous macadam,	443	1,397
†Chapin terrace,	Chestnut to Marvin,	Water-bound macadam,	601	3,112
Chapin terrace,	Marvin street to 125' east of Narragansett,	Bituminous macadam,	466	2,729
Charles street,	Liberty to Franklin,	Bituminous concrete,	626	1,940
Charles street,	Liberty street to land of B. & A. R. R.,	Granite blocks on sand,	150	376
Chase avenue,		Water-bound macadam,	583	1,943
Cherryvale avenue,		Water-bound macadam,	687	2,290
Chester street,		Bituminous macadam,	910	2,702
Chestnut street,	State street to top of hill,	Glutrin-bound macadam,	207	552
Chestnut street,	Top of hill to Edwards street,	Bituminous concrete,	599	1,901
Chestnut street,	Edwards street to Harrison avenue,	Rocmac,	173	590
Chestnut street,	Harrison avenue to Pearl street,	Bituminous concrete,	281	2,630
Chestnut street,	Bridge to Worthington,	Bituminous concrete,	441	
Chestnut street,	Worthington to Linden,	Granite blocks on sand,	2,368	8,389
Chestnut street,	Jefferson avenue to Springfield street, west side,	Bituminous macadam,	1,840	4,388
Chestnut street,	Jefferson avenue to Springfield street, east side,	Bituminous macadam,	——	4,604

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Chestnut street,	Montmorenci to Springfield,	Water-bound macadam,	——	**2,908
Church street,		Tar top,	832	2,579
Churchill street,		Water-bound macadam,	575	1,919
Clantoy street,		Bituminous macadam,	1,251	4,224
Clarendon street,	Bay street to Dartmouth terrace,	Water-bound macadam,	1,592	6,038
Clark street,		Water-bound macadam,	619	1,100
Clifford street,		Bituminous macadam,	449	1,497
Clifton avenue,		Bituminous macadam,	518	1,140
Cliftwood street,		Bituminous macadam,	458	1,163
Clinton street,		Bituminous concrete,	672	1,813
College street,	State street to Wilbraham road,	Water-bound macadam,	527	1,522
College street,	State street to 300′ north of Shattuck street,	Bituminous macadam,	1,078	3,864
Collins street,		Bituminous macadam,	519	1,571
Colton street,	Wilbraham road to Union street,	Bituminous concrete,	772	1,970
Colton street,	Union to Beacon street,	Bituminous macadam,	848	2,627
Commonwealth ave.,	Belmont avenue to Glenwood street,	Bituminous macadam,	1,094	3,506
Concord terrace,		Bituminous macadam,	339	1,507
Congress street,	Main to North,	Bituminous concrete,	932	2,386
Congress street,	North street to foot of hill,	Bituminous concrete,	314	803
Congress street,	Foot of hill to Chestnut street,	Water-bound macadam,	244	576
Continental avenue,		Bituminous macadam,	453	1,510
Cornell street,		Water-bound macadam,	1,283	4,275
Cortland street,		Bituminous macadam,	650	2,167
Cross street,	Willow to Maple,	Water-bound macadam,	608	1,416
Crystal avenue,		Water-bound macadam,	930	3,100
Cumberland street,	Main to North,	Bituminous macadam,	372	1,240
Cumberland street,	North to Chestnut,	Water-bound macadam,	426	1,420
Cypress street,	Main to Fulton,	Granite blocks on sand,	644	2,433

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Dale street,		Water-bound macadam,	812	2,051
Dartmouth street,		Water-bound macadam,	1,132	5,159
Dartmouth terrace,	Cornell street, southerly,	Water-bound macadam,	488	2,544
Dartmouth terrace,	Worthington to Clarendon, west roadway,	Bituminous macadam,	411	939
Dawes street,		Bituminous macadam,	1,237	4,125
Daytona street,		Bituminous macadam,	590	1,966
Demond avenue,		Water-bound macadam,	859	2,863
Dickinson street,	Between tracks on hill,	Bituminous macadam,	692	354
Dickinson street,	Bailey square to Marengo park,	Water-bound macadam,	761	3,733
Dickinson street,	Marengo park to the "X",	Bituminous concrete,	3,122	16,402
Dickinson street,	"X" to Longmeadow line,	Bituminous macadam,	2,668	11,215
Donald street,		Bituminous macadam,	444	1,480
Dorchester street,		Water-bound macadam,	567	1,887
Douglas street,		Water-bound macadam,	540	1,800
Dresden street,		Bituminous macadam,	748	2,489
Dunmoreland street,	Wilbraham road to Westford avenue,	Bituminous macadam,	1,481	4,945
Eagle street,		Water-bound macadam,	556	1,855
East Hooker street,		Water-bound macadam,	679	1,786
Eastern avenue,	Wilbraham road to King street,	Bituminous concrete,	2,052	7,199
Eastern avenue,	King to Alden street,	Tar top,	1,257	4,460
Eastern avenue,	Alden to Hickory street,	Bituminous concrete,	1,257	4,372
Edwards street,		Water-bound macadam,	675	2,219
Elliott street,		Bituminous concrete,	1,007	3,342
Elm street,	Court Square avenue to Water street,	Bituminous concrete,	606	2,076
Elm street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	243	608
Elmwood street,		Water-bound macadam,	886	2,738
Essex street,	Main to North,	Tar top,	891	2,871
Essex street,	North to Chestnut,	Water-bound macadam,	652	2,101

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Euclid avenue,		Water-bound macadam,	1,169	3,896
Everett street,		Water-bound macadam,	1,500	4,859
Fairfield street,		Water-bound macadam,	882	2,940
Farnsworth street,	Hamburg street, easterly, 20′ wide,	Water-bound macadam,	513	1,710
Farnsworth street,	Extension to Chicopee line,	Bituminous macadam,	882	2,983
Federal street,	At Pearl street,	Bituminous concrete,	124	464
Federal street,	Pearl to Summer,	Water-bound macadam,	949	3,814
Firglade avenue,	Maplewood terrace to Pineywoods avenue,	Water-bound macadam,	1,332	4,433
Firglade avenue,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	520	1,733
Fisk avenue,		Water-bound macadam,	1,682	6,240
Florence street,	Pine to Hancock,	Water-bound macadam,	1,582	4,346
Florence street,	Hancock to Walnut,	Bituminous macadam,	281	927
Florentine Gardens,		Water-bound macadam,	706	3,501
Florida street,	Bay street to St. James avenue,	Tar top,	543	1,811
Florida street,	St. James avenue to Ingersoll grove,	Water-bound macadam,	1,649	5,057
Forest street,		Water-bound macadam,	784	2,502
Forest Park avenue,	Sumner to Pineywoods,	Bituminous macadam,	832	3,015
Forest Park avenue,	Sumner avenue to Forest street,	Water-bound macadam,	752	3,846
Forest Park avenue,	Forest st. to Fort Pleasant ave., 22½′ wide,	Water-bound macadam,	1,760	4,475
Fort street,		Granite blocks on sand,	670	1,770
Fort Pleasant avenue,	Mill street to Chase avenue and Warner street to Sumner avenue,	Water-bound macadam,	1,793	10,325
Fort Pleasant avenue,	Chase avenue to Warner street,	Tar top,	1,001	7,065
Foster street,		Water-bound macadam,	740	2,034
Franklin street,	Main to Webster,	Water-bound macadam,	3,553	12,176
Franklin street,	Webster to Genesee, 20′ wide,	Water-bound macadam,	1,139	3,797
Fremont street,		Bituminous concrete,	780	2,622
Fulton street,	Plainfield to Auburn,	Tar top,	1,960	7,123

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Dale street,		Water-bound macadam,	812	2,051
Dartmouth street,		Water-bound macadam,	1,132	5,159
Dartmouth terrace,	Cornell street, southerly,	Water-bound macadam,	488	2,544
Dartmouth terrace,	Worthington to Clarendon, west roadway,	Bituminous macadam,	411	939
Dawes street,		Bituminous macadam,	1,237	4,125
Daytona street,		Bituminous macadam,	590	1,966
Demond avenue,		Water-bound macadam,	859	2,863
Dickinson street,	Between tracks on hill,	Bituminous macadam,	692	354
Dickinson street,	Bailey square to Marengo park,	Water-bound macadam,	761	3,733
Dickinson street,	Marengo park to the "X",	Bituminous concrete,	3,122	16,402
Dickinson street,	"X" to Longmeadow line,	Bituminous macadam,	2,668	11,215
Donald street,		Bituminous macadam,	444	1,480
Dorchester street,		Water-bound macadam,	567	1,887
Douglas street,		Water-bound macadam,	540	1,800
Dresden street,		Bituminous macadam,	748	2,489
Dunmoreland street,	Wilbraham road to Westford avenue,	Bituminous macadam,	1,481	4,945
Eagle street,		Water-bound macadam,	556	1,855
East Hooker street,		Water-bound macadam,	679	1,786
Eastern avenue,	Wilbraham road to King street,	Bituminous concrete,	2,052	7,199
Eastern avenue,	King to Alden street,	Tar top,	1,257	4,460
Eastern avenue,	Alden to Hickory street,	Bituminous concrete,	1,257	4,372
Edwards street,		Water-bound macadam,	675	2,219
Elliott street,		Bituminous concrete,	1,007	3,342
Elm street,	Court Square avenue to Water street,	Bituminous concrete,	606	2,076
Elm street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	243	608
Elmwood street,		Water-bound macadam,	886	2,738
Essex street,	Main to North,	Tar top,	891	2,871
Essex street,	North to Chestnut,	Water-bound macadam,	652	2,101

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Euclid avenue,		Water-bound macadam,	1,169	3,896
Everett street,		Water-bound macadam,	1,500	4,859
Fairfield street,		Water-bound macadam,	882	2,940
Farnsworth street,	Hamburg street, easterly, 20′ wide,	Water-bound macadam,	513	1,710
Farnsworth street,	Extension to Chicopee line,	Bituminous macadam,	882	2,983
Federal street,	At Pearl street,	Bituminous concrete,	124	464
Federal street,	Pearl to Summer,	Water-bound macadam,	949	3,814
Firglade avenue,	Maplewood terrace to Pineywoods avenue,	Water-bound macadam,	1,332	4,433
Firglade avenue,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	520	1,733
Fisk avenue,		Water-bound macadam,	1,682	6,240
Florence street,	Pine to Hancock,	Water-bound macadam,	1,582	4,346
Florence street,	Hancock to Walnut,	Bituminous macadam,	281	927
Florentine Gardens,		Water-bound macadam,	706	3,501
Florida street,	Bay street to St. James avenue,	Tar top,	543	1,811
Florida street,	St. James avenue to Ingersoll grove,	Water-bound macadam,	1,649	5,057
Forest street,		Water-bound macadam,	784	2,502
Forest Park avenue,	Sumner to Pineywoods,	Bituminous macadam,	832	3,015
Forest Park avenue,	Sumner avenue to Forest street,	Water-bound macadam,	752	3,846
Forest Park avenue,	Forest st. to Fort Pleasant ave., 22½′ wide,	Water-bound macadam,	1,760	4,475
Fort street,		Granite blocks on sand,	670	1,770
Fort Pleasant avenue,	Mill street to Chase avenue and Warner street to Sumner avenue,	Water-bound macadam,	1,793	10,325
Fort Pleasant avenue,	Chase avenue to Warner street,	Tar top,	1,001	7,065
Foster street,		Water-bound macadam,	740	2,034
Franklin street,	Main to Webster,	Water-bound macadam,	3,553	12,176
Franklin street,	Webster to Genesee, 20′ wide,	Water-bound macadam,	1,139	3,797
Fremont street,		Bituminous concrete,	780	2,622
Fulton street,	Plainfield to Auburn,	Tar top,	1,960	7,123

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Fulton street,	At Plainfield,	Water-bound macadam,	267	890
Gardner street,	Main to Water,	Bituminous concrete,	461	1,545
Gardner street,	Water to Hanover,	Water-bound macadam,	653	2,168
Garfield street,		Bituminous concrete,	1,380	4,721
Genesee street,	Liberty to Warwick,	Bituminous macadam,	644	2,423
Genesee street,	Liberty to Franklin, 20′ wide,	Water-bound macadam,	276	821
Genesee street,	Franklin to Dunn,	Bituminous macadam,	285	1,026
George street,	Maple street, westerly,	Bituminous macadam,	171	647
George street,	Extension to Pine street,	Bituminous concrete,	358	1,117
Gordon street,		Bituminous macadam,	541	2,066
Grace street,		Water-bound macadam,	354	885
Grant street,		Water-bound macadam,	577	1,603
Granville street,		Bituminous macadam,	453	1,358
Gray's avenue,		Water-bound macadam,	560	1,300
Greenacre square,		Water-bound macadam,	415	856
Greene street,		Water-bound macadam,	1,347	4,490
Greenleaf street,		Water-bound macadam,	740	3,098
Greenwich street,		Water-bound macadam,	643	2,143
Greenwood street,	Main to North,	Bituminous concrete,	930	3,110
Greenwood street,	North to Chestnut,	Water-bound macadam,	572	1,897
Grenada terrace,		Bituminous macadam,	1,095	5,820
Grosvenor street,		Water-bound macadam,	738	2,286
Grove street,		Water-bound macadam,	612	1,734
Grover street,		Bituminous macadam,	1,343	4,156
Hall street,		Water-bound macadam,	992	3,307
Hamburg street,	20′ wide,	Water-bound macadam,	574	1,786
Hampden street, I. O.,	Oak to Pine,	Bituminous macadam,	517	2,068
Hampden street,		Bituminous concrete,	606	2,360

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Hancock street,	State to Walnut,	Tar top,	3,231	11,396
Hancock street,	Walnut to Clark,	Water-bound macadam,	885	2,949
Hancock street,	Clark to Central,	Bituminous macadam,	510	2,024
Harriet street,		Water-bound macadam,	816	2,720
Harvard street,		Water-bound macadam,	1,565	5,206
Hawley street,		Bituminous macadam,	368	1,226
Hawthorne street,		Water-bound macadam,	540	1,374
Hebron street,		Water-bound macadam,	698	2,204
Heywood street,		Water-bound macadam,	250	833
Hiawatha street,		Bituminous macadam,	481	1,709
Hickory street,	Eastern avenue to Shefford street and Alden street to Carlisle brook,	Water-bound macadam,	3,918	9,945
Hickory street,	N. Y., N. H. & H. R. R. to Alden street,	Bituminous macadam,	1,080	2,573
High street,	Maple to School,	Tar top,	763	1,926
High street,	School to Walnut,	Water-bound macadam,	1,800	3,618
Hillman street,	Main to Dwight,	Bituminous concrete,	648	2,025
Hollywood street,		Bituminous macadam,	736	2,513
Holyoke street,		Water-bound macadam,	776	2,001
Home street,		Bituminous macadam,	761	2,674
Homer street,		Water-bound macadam,	582	1,940
Horace street,		Bituminous macadam,	770	2,557
Howard street,	Main to Water,	Bituminous concrete,	944	3,171
Howard street,	Water street to railroad,	Water-bound macadam,	333	1,110
Hubbard avenue,	Willow to Dale,	Water-bound macadam,	186	341
Huntington street,		Water-bound macadam,	643	2,143
Hyde avenue,		Bituminous macadam,	943	3,151
Ingersoll grove,		Water-bound macadam,	1,395	4,650
Ingraham avenue,		Water-bound macadam,	258	462

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Irvington street,		Bituminous macadam,	792	2,840
James street,		Water-bound macadam,	928	2,356
Jasper street,		Water-bound macadam,	983	3,410
Jefferson avenue,		Water-bound macadam,	1,275	6,375
John street,		Water-bound macadam,	640	2,136
Keith street,		Water-bound macadam,	1,107	3,690
Kenwood park,		Water-bound macadam,	721	3,888
Kenwood terrace,		Bituminous macadam,	524	2,307
Kibbe avenue,		Water-bound macadam,	213	710
King street,	Walnut to Logan,	Tar top,	2,396	7,951
King street,	Logan to N. Y., N. H. & H. R. R.,	Water-bound macadam,	172	533
King street,	N. Y., N. H. & H. R. R. to Westford avenue,	Bituminous macadam,	684	2,396
Knox street,		Bituminous macadam,	1,123	3,839
Ladd street,		Bituminous macadam,	499	1,772
Lafayette street,		Water-bound macadam,	568	1,865
Lebanon street,		Tar top,	1,889	5,118
Leete street,		Bituminous macadam,	971	3,414
Lenox street,		Bituminous macadam,	450	1,200
Lexington avenue,	Chestnut to Massasoit street,	Water-bound macadam,	622	1,659
Lexington street,	Massasoit street, easterly,	Bituminous macadam,	430	1,266
Leyfred terrace,		Water-bound macadam,	625	2,102
Liberty street,	Armory street to St. R. R. turnout, south side of tracks,	Tar top,	1,750	3,383
Liberty street,	St. R. R. turnout to Carew street,	Water-bound macadam,	500	1,888
Liberty street,	Across Chicopee road,	Bituminous macadam,	55	306
Liberty street,	Armory street to Chicopee line,	Water-bound macadam,	——	**8,860
Lillian street,		Water-bound macadam,	387	989
Linden street,		Water-bound macadam,	1,287	5,148

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Litchfield street,		Water-bound macadam,	384	1,280
Locust street,	Belmont avenue to Dickinson street (includes Bailey square),	Bituminous macadam,	3,068	10,279
Logan street,		Bituminous macadam,	1,167	3,980
Lombard street,		Water-bound macadam,	590	1,677
Longhill street,	Warner street to Sumner avenue,	Water-bound macadam,	475	2,321
Longhill street,	Sumner avenue to Cherryvale avenue,	Water-bound macadam,	800	3,923
Longhill street,	Cherryvale avenue to Washington boulevard,	Bituminous macadam,	540	3,404
†Longmeadow street,	Longhill street to Longmeadow line,	Water-bound macadam,	2,930	7,813
Longview street,		Bituminous macadam,	551	1,917
Loring street,		Water-bound macadam,	707	2,294
Lowell street,		Water-bound macadam,	1,390	4,633
Lyman street,	Main to Chestnut,	Granite blocks on sand,	1,305	4,255
Lyman street,	Chestnut to Spring,	Granite blocks on sand,	731	3,044
Lyndale street,		Bituminous macadam,	1,059	3,530
Madison avenue,		Water-bound macadam,	529	1,657
Magnolia terrace,	Sumner avenue to Pineywoods avenue,	Water-bound macadam,	1,141	6,209
Magnolia terrace,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	312	1,832
Main street,	Locust street to Pecousic avenue,	Tar top,	1,573	7,524
Main street,	Pecousic avenue, southerly,	Water-bound macadam,	1,000	3,517
Main street, I. O.,	Front street to asphalt pavement and asphalt pavement to Wilbraham line,	Water-bound macadam,	5,018	15,856
Main street, I. O.,	Front street to Ludlow bridge,	Water-bound macadam,	——	**9,064
Manhattan street,		Bituminous macadam,	1,101	2,799
Maple court,		Bituminous macadam,	712	1,760
Maple street,	State street to Avon place,	Bituminous concrete,	1,914	7,167
Maple street,	Central street to top of hill,	Rocmac,	725	2,062
Maple street,	Top of hill to Pine street,	Bituminous concrete,	1,039	3,119

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Maple street,	Pine to George,	Tar top,	387	1,142
Maple street,	George to Mill,	Water-bound macadam,	494	1,570
Mapledell street,		Water-bound macadam,	972	3,239
Maplewood terrace,	Ft. Pleasant ave. to Forest Park ave., south side,	Water-bound macadam,	1,301	3,075
Maplewood terrace,	Forest Park avenue to Riverview ter., north side,	Water-bound macadam,	——	1,874
Maplewood terrace,	Fort Pleasant ave. to Riverview ter., north side,	Bituminous macadam,	——	1,237
Marble street,		Water-bound macadam,	1,074	3,508
Marengo park,		Water-bound macadam,	1,869	6,230
Margaret street,	Main to Water,	Bituminous concrete,	844	2,861
Margaret street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	534	775
Marion street,	Bay to McKnight,	Bituminous macadam,	870	2,898
Market street,		Bituminous concrete,	968	1,887
Mason street,		Bituminous macadam,	661	2,203
Massachusetts avenue,		Bituminous macadam,	1,457	7,346
Massasoit street,	Carew to Prospect,	Water-bound macadam,	851	2,803
Massasoit street,	Prospect to 143′ north of Montmorenci street,	Bituminous macadam,	1,148	3,827
Massasoit street,	Chapin terrace to Pratt street,	Water-bound macadam,	430	1,440
Mattoon street,	(Includes Salem street),	Bituminous concrete,	1,358	4,019
Maynard street,	State to Shattuck,	Bituminous macadam,	782	3,476
McKnight street,	Sherman to Bowles,	Water-bound macadam,	532	1,773
Medford street,		Water-bound macadam,	624	2,080
Merrick street,		Bituminous macadam,	326	1,021
Merwin street,		Water-bound macadam,	713	2,377
Middlesex street,	Wilbraham road to Marlborough street,	Bituminous macadam,	787	2,623
Mill street,	Main to Maple and Mill river to Dickinson,	Water-bound macadam,	2,493	10,788
Mill street,	Maple to Mill river,	Bituminous concrete,	757	2,776
Mill street extension,	Pecousic avenue, easterly,	Bituminous macadam,	194	1,206
Monmouth street,		Water-bound macadam,	1,168	4,000

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Monroe street,	Hancock street to Eastern avenue,	Water-bound macadam,	1,345	3,736
Monroe street,	Eastern avenue to Colton street,	Bituminous macadam,	281	780
Montmorenci street,		Water-bound macadam,	620	2,067
Montrose street,		Bituminous macadam,	973	3,242
Mooreland street,		Bituminous macadam,	1,417	3,723
Morgan street,		Bituminous macadam,	849	2,924
Morningside park,	White street to Trinity terrace,	Bituminous macadam,	330	1,232
Morris street,		Water-bound macadam,	1,022	3,031
Mountainview street,		Water-bound macadam,	682	2,330
Mulberry street,		Water-bound macadam,	2,015	5,706
Murray Hill avenue,		Water-bound macadam,	600	2,000
Myrtle street,		Water-bound macadam,	484	997
Narragansett street,		Bituminous macadam,	1,272	4,364
Nelson street,		Bituminous macadam,	695	2,134
Norfolk street,		Bituminous macadam,	824	3,160
North street,	Carew street to Jefferson avenue,	Tar top,	2,045	8,243
North street,	Jefferson avenue to Cumberland street,	Water-bound macadam,	1,520	4,505
Northampton avenue,	Wilbraham road to Beverly street,	Water-bound macadam,	1,229	4,096
Northampton avenue,	Beverly street to south side of Gunn square,	Bituminous macadam,	438	1,524
Norwood street,		Water-bound macadam,	1,117	2,911
Oak street,		Bituminous concrete,	1,356	4,462
Oak street, I. O.,	Water to Main and Worcester to Berkshire,	Water-bound macadam,	1,105	4,791
Oak street, I. O.,	Worcester to Berkshire,	Water-bound macadam,	——	**1,610
Oak Grove avenue,		Bituminous macadam,	2,792	9,709
Oakland street,	Sumner avenue to Dickinson street,	Bituminous concrete,	1,565	7,075
Oakland street,	Dickinson to Allen,	Water-bound macadam,	2,584	8,672
Olive street,		Water-bound macadam,	478	1,248
Orange street,	Bailey square to Allen street,	Bituminous macadam,	4,027	15,702

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Orchard street,	Plainfield street, westerly,	Water-bound macadam,	1,040	3,467
Orchard street,	Extension to river,	Bituminous macadam,	383	1,247
Orlando street,		Bituminous macadam,	735	2,250
Orleans street,		Water-bound macadam,	1,509	4,293
Ormond street,		Bituminous macadam,	365	1,222
Osgood street,		Water-bound macadam,	894	3,000
Oxford street,		Bituminous macadam,	663	2,219
Page boulevard,	St.James avenue to east line Westinghouse Co property,	Bituminous macadam,	8,034	30,691
Palmer avenue,		Water-bound macadam,	991	3,177
Park street,	Foot of hill to Maple street,	Water-bound macadam,	539	1,052
Parkwood street,		Water-bound macadam,	450	1,500
Pasco road, I. O.,	Essex street, southerly,	Bituminous macadam,	611	2,475
Patton street,	Main to North,	Tar top,	868	3,007
Patton street,	North to Chestnut,	Water-bound macadam,	705	2,350
Pearl street,	Chestnut to Spring,	Bituminous concrete,	983	2,817
Pearl street,	Spring to Byers,	Water-bound macadam,	237	696
Pease street,		Bituminous macadam,	382	1,468
Pecousic avenue,	Gardner to Main street,	Bituminous macadam,	2,301	17,267
Pecousic avenue,	Main to Agawam, east roadway,	Bituminous macadam,	——	3,436
Pecousic avenue,	Main street to Leary's line,	Bituminous concrete,	2,691	8,727
Pecousic avenue,	Leary's line to Longhill street,	Bituminous macadam,	1,420	3,313
Pendleton avenue,		Tar top,	2,586	6,467
Phoenix street,		Bituminous macadam,	602	2,101
Pine street,	Mill to Maple,	Water-bound macadam,	1,003	1,348
Pine street,	Maple to Walnut,	Bituminous concrete,	3,417	12,996
Pineywoods avenue,	Washington boulevard to Florentine Gardens,	Bituminous macadam,	490	1,633
Pineywoods avenue,	Florentine Gardens to Washington road,	Water-bound macadam,	1,273	4,243

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Pineywoods avenue,	Washington road to Forest Park avenue,	Bituminous macadam,	329	1,097
Plainfield street,	Wason avenue to Chicopee line,	Bituminous macadam,	423	979
Pleasant street,		Tar top,	428	1,141
Plymouth street,		Water-bound macadam,	479	1,597
Pomona street,		Bituminous macadam,	882	3,157
Portland street,		Water-bound macadam,	610	2,033
†Pratt street,		Water-bound macadam,	600	2,000
Prince street,		Bituminous macadam,	327	1,098
Princeton street,	Bay to Cornell,	Water-bound macadam,	1,776	7,219
Princeton street,	Bay street to St. James avenue,	Water-bound macadam,	——	**1,496
Prospect street,	Massasoit to Carew,	Water-bound macadam,	817	2,996
Queen street,	Walnut to Hancock,	Bituminous macadam,	742	1,897
Quincy street,	Oak street to Eastern avenue,	Water-bound macadam,	2,704	7,780
Quincy street,	Eastern avenue to Colton street,	Bituminous macadam,	274	848
Railroad street,	Main street, westerly,	Granite blocks on sand,	176	500
Randolph street,	Sumner avenue to Forest Park avenue,	Water-bound macadam,	916	3,053
Reed street,		Water-bound macadam,	660	2,493
Revere street,		Bituminous macadam,	1,278	4,459
Richelieu court,		Bituminous macadam,	446	1,403
Ridgewood place,		Water-bound macadam,	537	1,193
Ridgewood terrace,		Water-bound macadam,	886	1,643
Ringgold street,		Water-bound macadam,	730	2,432
Riverview street,		Water-bound macadam,	625	2,094
Riverview terracc,	Ft. Pleasant ave. to Riverview st., north driveway,	Water-bound macadam,	281	721
Riverview terrace,	Fort Pleasant avenue to Maplewood terrace,	Bituminous macadam,	545	3,336
Rochelle street,		Bituminous macadam,	856	2,856
Roseland street,		Bituminous macadam,	842	2,807
Rowland avenue,	Plainfield street to Fisk avenue,	Water-bound macadam,	690	1,674

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Rutland street,		Tar top,	277	926
Rutledge avenue,		Water-bound macadam,	516	1,599
Salem street,	(See Mattoon street)			
Sargeant street,		Water-bound macadam,	860	3,126
School street,		Bituminous concrete,	1,422	4,799
Scott street,		Bituminous macadam,	673	2,355
Seventh street,		Water-bound macadam,	822	2,529
Sharon street,	Main to North,	Bituminous concrete,	917	2,855
Sharon street,	North to foot of hill,	Bituminous concrete,	334	1,253
Sharon street,	Foot of hill to Chestnut street,	Water-bound macadam,	212	393
Shattuck street,		Bituminous macadam,	1,121	3,707
Shefford street,	Springfield to Springfield,	Bituminous macadam,	1,164	3,879
Sheldon street,		Water-bound macadam,	651	2,027
Sherman street,		Water-bound macadam,	1,623	5,394
Silver street,		Bituminous macadam,	626	2,087
Sorrento street,		Bituminous macadam,	799	2,685
Springfield street,	Chestnut street to Atwater terrace and Hamburg street to Chicopee line,	Water-bound macadam,	——	*1,242
Springfield street,	Chestnut to Atwater Glen,	Tar top,	820	3,437
Springfield street,	Atwater Glen to top of hill,	Water-bound macadam,	931	1,862
Springfield street,	Russell's, south line, to Shefford street,	Bituminous macadam,	369	1,972
Springfield street,	Shefford to Armory,	Bituminous concrete,	1,037	4,800
Springfield street,	Armory street intersection,	Bituminous macadam,	225	780
Springfield street,	Armory street to Chicopee line,	Water-bound macadam,	1,027	2,738
Spruce street,		Water-bound macadam,	699	1,737
Spruceland avenue,		Water-bound macadam,	1,370	4,566
Stafford street,		Bituminous macadam,	460	1,567
State street,	Chestnut street to City Library,	Granite blocks on sand,	197	542

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
State street,	Library to east line of High School of Commerce,	Water-bound macadam,	2,211	14,865
Stearns square,	West of Park,	Tar top,	256	451
Stearns square,	East of Park,	Tar top,	259	456
Stebbins street,		Water-bound macadam,	973	3,243
St. James avenue,	State street to 175′ west of Dartmouth street, and 175′ east of Princeton to N. Y., N. H. & H. R. R.,	Tar top,	3,146	15,348
Stockbridge street,	Willow to foot of hill,	Water-bound macadam,	318	499
Summer street,	Spring street to 85′ west of Federal,	Granite blocks on sand,	2,613	8,176
Sumner avenue,	Longhill street to Forest Park entrance,	Water-bound macadam,	3,219	12,072
Sumner avenue,	Beechwood to Forest Park avenue, south side,	Bituminous macadam,	——	3,155
Sumner avenue,	Forest Park entrance to Lenox street, north side,	Bituminous macadam,	1,700	4,236
Sumner avenue,	Forest Park entrance to Oakland street, south side,	Water-bound macadam,	393	895
Sumner avenue,	Lenox street to 90′ west of Ventura,	Bituminous concrete,	484	5,626
Sumner avenue,	90′ west of Ventura to Daviston street,	Bituminous macadam,	2,948	19,452
Sumner terrace,		Bituminous macadam,	427	2,268
Talcott avenue,		Bituminous macadam,	721	3,134
Taylor street,	Main to Dwight,	Bituminous concrete,	552	1,857
Temple street,		Water-bound macadam,	953	2,570
Tenth street,	Main to North,	Bituminous concrete,	908	2,574
Tenth street,	North to Chestnut,	Water-bound macadam,	609	1,724
Terrence street,		Water-bound macadam,	714	2,380
Thomas street,		Water-bound macadam,	583	1,945
Thompson street,	State to Bay,	Tar top,	786	2,582
Thompson street,	Bay to Worthington,	Water-bound macadam,	1,307	4,024
Tracy street,		Bituminous macadam,	425	1,363
Tyler street,	Oak to Hancock,	Water-bound macadam,	1,346	4,002
Tyler street,	Hancock street to Eastern avenue,	Bituminous macadam,	1,343	4,326
Tyler street,	Eastern avenue to Colton street,	Bituminous macadam,	275	892

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Union street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	414	1,702
Union street,	Water to Main,	Bituminous concrete,	935	3,049
Union street,	Willow to foot of hill,	Water-bound macadam,	394	1,160
Union street,	Maple to Mulberry and Oak st. to Eastern avenue,	Water-bound macadam,	4,088	14,251
Union street,	Mulberry to Walnut,	Bituminous concrete,	859	3,006
Union street,	Walnut to Oak,	Bituminous concrete,	424	1,122
Union street,	Eastern avenue to Colton street,	Bituminous macadam,	291	894
Vassar street,		Bituminous macadam,	495	1,685
Ventura street,		Bituminous macadam,	804	2,680
Vine street,		Water-bound macadam,	745	1,892
Vinton street,		Water-bound macadam,	612	2,465
Wait street,		Bituminous macadam,	1,428	3,808
Walnut street,	Hickory street to top of hill,	Water-bound macadam,	440	1,961
Walter street,		Bituminous macadam,	390	1,300
Waltham avenue,		Water-bound macadam,	985	2,628
Warner street,		Water-bound macadam,	691	2,152
Warriner avenue,		Water-bound macadam,	450	1,601
Warwick street,	Heywood street, easterly,	Water-bound macadam,	811	2,703
Washburn street,		Water-bound macadam,	1,400	4,667
Washington road,	Maplewood terrace to Pineywoods avenue,	Water-bound macadam,	1,083	3,610
Washington road,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	508	1,693
Washington street,	Dickinson to Commonwealth avenue,	Bituminous macadam,	523	1,847
Wason avenue,	Main street to B. & M. R. R.,	Water-bound macadam,	505	1,718
Wason avenue,	Main street to B. & M. R. R.,	Water-bound macadam,	——	**449
Wason avenue,	B. & M. R. R. to Plainfield street,	Bituminous macadam,	1,321	4,370
Water street,	Hampden to Bridge,	Granite blocks on sand,	586	3,906
Water street,	Bridge street to Whitney place,	Tar top,	3,504	10,856
Water street,	Whitney place to Gardner street,	Bituminous macadam,	725	4,054

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TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Waverly street,		Water-bound macadam,	850	2,910
Webster street,		Water-bound macadam,	606	2,020
Wellesley street,		Water-bound macadam,	444	1,480
Wellington street,	Wilbraham road to Marlborough street,	Bituminous macadam,	825	2,750
West street,	Hampden park to North End bridge,	Bituminous concrete,	1,073	2,996
Westernview street,		Water-bound macadam,	650	2,167
Westford avenue,	Wilbraham road to Gunn square,	Water-bound macadam,	1,380	6,133
Westminster street,		Water-bound macadam,	1,911	6,388
White street,	Allen street to St. Railway turn-out and Orange street to Sumner avenue,	Tar top,	3,459	12,057
White street,	East and west sides of St. Railway turn-out,	Bituminous concrete,	956	1,763
White street,	Sumner avenue to Longmeadow line,	Water-bound macadam,	3,638	6,358
White street,	Belmont avenue to Longmeadow line,	Water-bound macadam,	——	**1,756
Whitney place,		Bituminous macadam,	455	1,202
Whittier avenue,		Bituminous macadam,	1,212	4,372
Wight place,		Water-bound macadam,	388	692
Wilbraham avenue,	Wilbraham road to King street,	Water-bound macadam,	2,046	6,820
Wilbraham avenue,	King to Alden,	Bituminous macadam,	1,182	3,940
Wilbraham road,	N. Y., N. H. & H. R. R. to Massachusetts ave.,	Bituminous concrete,	1,230	5,830
Wilbraham road,	Massachusetts avenue to Homer street,	Bituminous macadam,	610	2,554
Wilbraham road,	Homer to Benton street, north side,	Bituminous macadam,	2,604	5,293
Wilbraham road,	Homer to Benton street, south side,	Tar top,	——	6,478
Wilcox street,	Water street, westerly,	Water-bound macadam,	385	984
Wilcox street,	Water to Main,	Bituminous concrete,	928	3,062
Willard avenue,		Bituminous macadam,	766	2,328
William street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	466	1,381
William street,	Water to Main,	Bituminous concrete,	902	2,978
Willow st. extension,	Adams to Marble,	Bituminous macadam,	826	4,878

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TABLE OF SURFACE PAVEMENT.—CONCLUDED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Winchester street,		Bituminous macadam,	378	1,252
Windsor street,		Bituminous macadam,	679	2,241
Winthrop street,		Water-bound macadam,	659	2,397
Wolcott street,		Bituminous macadam,	439	1,463
Woodside terrace,		Water-bound macadam,	937	3,123
Worcester avenue,		Bituminous macadam,	811	2,709
Worcester street, I. O.,	Pine street to Fiberloid Co.'s driveway, 18' wide,	Water-bound macadam,	4,994	10,988
Worthington street,	Broadway to Main street,	Bituminous concrete,	404	1,418
Worthington street,	Spring street to Bowdoin street,	Water-bound macadam,	4,147	11,429
Worthington street,	Bowdoin to St. James avenue,	Bituminous concrete,	747	2,590
Yale street,		Water-bound macadam,	1,493	5,142
York street,	Main street to Pecousic avenue,	Bituminous concrete,	407	1,085
York street,	Pecousic avenue to N. Y., N. H. & H. R. R.,	Water-bound macadam,	593	1,912

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TABLE OF SURFACE PAVEMENT.

RECAPITULATION.

	Miles.	Square yards.
Water-bound macadam,.....	45.14 •	829,794
Bituminous macadam,.....	29.24	583,058
Bituminous concrete,.....	11.65	219,308
Tar top,.....	7.74	142,841
Granite on sand,.....	1.83	34,104
Glutrin-bound macadam,.....	.58	5,329
Rocmac,.....	.17	2,652
	96.35	
Gravel roads,.....	46.61	
Dirt roads,.....	7.95	

* Includes macadam laid by Springfield Street Railway Company.

** Macadam laid by Springfield Street Railway Company.

† Macadam laid by private parties.

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STREET MAINTENANCE.

RESURFACING.

Streets.	Limits.	Materials.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost. per sq. yd.
Armory street,	B. & A. to Napier st.,	Bituminous mac.,	294	1,097	8.14	$44.77	$684.64	$0.62
Armory street,	Liberty to Carew,	Bituminous con.,	1,561	5,351	57.09	314.00	5,216.30	.97
Atwater terrace,	.....	Water-bound,	1,000	3,333	15.04	82.72	1,208.20	.36
Bancroft street,	.....	Bituminous mac.,	884	2,976	20.48	112.64	1,593.04	.54
Berendo street,	Grenada ter. to Alderman street,	Gravel,	370	1,645	.90	4.95	54.93	.03
Berkshire street,	Chestnut to Oak st.,	Tar top,	1,325	5,409	63.30	332.32	3,629.20	.67
Birnie avenue,	Greenwich to Wason avenue,	Bituminous con.,	3,419	14,328	204.79	1,126.34	20,786.15	1.45
Bowdoin street,	Lincoln to St. James avenue,	Bituminous con.,	253	945	8.25	45.38	882.80	.93
Chestnut street,	Jefferson ave. to Springfield, west side,	Tar top,	1,840	4,388	43.61	239.85	2,717.01	.62
Congress street,	North to foot of Hill,	Bituminous con.,	314	803	9.82	54.01	884.61	1.10
Eastern avenue,	Wilbraham road to Hickory,	Bituminous con.,	3,309	11,571	115.36	634.48	11,353.33	.98
Fort Pleasant avenue,	Mill to Chase and Warner to Sumner ave.,	Water-bound,	980	6,123	24.69	135.80	1,635.87	.27
Fort Pleasant avenue,	Chase ave. to Warner,	Tar top,	1,001	7,065	35.83	197.07	2,780.43	.39
Fulton street,	Auburn to Plainfield,	Tar top,	1,960	7,123	37.30	205.15	3,460.49	.49

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STREET MAINTENANCE.

RESURFACING.—*Continued.*

Streets.	Limits.	Materials.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Garfield street,...	.....	Bituminous con.,	1,380	4,721	$45.54	$250.47	$4,553.27	$0.96
King street,.....	Walnut to Eastern av.,	Tar top,.....	1,966	6,518	58.39	321.15	3,517.38	.54
King street,.....	Eastern ave. to Logan,	Tar top,.....	430	1,433	11.92	65.56	758.34	.53
Liberty street,...	Armory to St. R. R. turnout, so. side and tracks,	Bituminous con.,	1,750	3,383	26.08	143.44	2,019.86	.60
Main street,.....	East side Worthington to Lyman,.....	Wood block,....	444	1,137	33.38	183.59	2.975.70	2.62
Main street,.....	Park to William, east side,.....	Wood block,....	654	...	...	...	...	...
	Bliss to William, west side,.....	Wood block,....	1,096	3,635	75.97	417.84	8,620.35	2.37
†Main street, I.O.,	Top of hill easterly,...	Tar top,.....	...	...	128.53	674.78	7,071.85	...
Mill street,.....	Maple to Mill river,..	Bituminous con.,	757	2,776	51.84	285.12	4,413.70	1.59
Morgan street,...	Main to North,.....	Bituminous mac.,	849	2,924	17.56	96.58	1,390.52	.48
Osgood street,....	Main to North,.....	Bituminous mac.,	894	3,000	27.56	151.58	1,419.38	.48
Sharon street,....	North to foot of hill,..	Bituminous con.,	334	1,253	12.18	66.99	1,151.10	.92
Springfield street,	Chestnut to entrance Springfield Hospital,	Tar top,.....	820	3,487	42.84	235.62	2,496.32	.72
State street,.....	South side from Library, and.....	Water-bound,...	2,217	...	...	...	...	...
	north side from 381 State to east line High School of Commerce,.....		397	5,785	20.21	111.16	1,171.17	.20

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STREET MAINTENANCE.

RESURFACING.—*Concluded.*

Streets.	Limits.	Materials.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Water street,.....	Bridge to Bliss,.....	Tar top,.....	1,700	4,839	$50.75	$279.13	$3,149.30	$0.65
Wilbraham road,.	South side, Homer to Benton,.....	Tar top,.....	2,604	6,478	43.48	239.14	2,743.59	.42
Worthington street,.....	North side, Chestnut to Fairbanks pl.,...	Wood block,....	623	897	26.85	147.68	2,378.74	2.65
Worthington street,.....	North side Fairbanks pl. to Spring st.,...	Brick,.....	223	327	9.70	53.35	296.15	.91
Worthington street,.....	St. James avenue to Bowdoin,.....	Bituminous con.,	1,529	5,391	58.03	319.16	6,513.84	1.20
Worthington street,.....	Main to Dwight,.....	Sheet asphalt on old brick,....	747	2,590	24.77	136.23	2,997.63	1.16
Totals,.....	.....	.....	37,742	132,731	$1,410.18	$7,708.05	$116,525.19	...

†Denotes incomplete work.
*Assessable.

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STREET MAINTENANCE.

RESURFACING RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Water-bound macadam,	3,287	15,241	$0.26	$4,015.24
Bituminous macadam,	1,171	6,614	.46	3,067.72
Tar top,	15,396	50,123	.54	27,271.92
Wood block,	1,942	5,669	2.46	13,974.79
Brick,	223	327	.91	296.15
Gravel,	370	1,645	.03	54.93
Asphalt,	747	2,500	1.20	2,997.63
Bituminous concrete,	14,606	50,522	1.14	57,774.96
Incomplete,	.....	.....	.....	7,071.85
Total,	37,742	132,731	.....	$116,525.19

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STREET MAINTENANCE.

REPAIRS.

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Abbe avenue,	.....	$77.56	.....	.....	.....	.....	$77.56
Albany street,	.....	140.50	.....	.....	.....	.....	140.50
Allen street,	$2,385.09	.....	.....	.....	$174.74	.....	2,559.83
Arch street,	.....	.....	.....	.....	.....	$105.28	105.28
Armory street,	.....	136.15	$13.16	.....	.....	.....	149.31
Ashley street,	.....	92.77	.....	.....	.....	.....	92.77
Avon place,	.....	4.07	.....	.....	.....	.....	4.07
Bay street,	.....	.....	15.62	.....	.....	.....	15.62
Bay road,	1,415.46	.....	.....	.....	.....	.....	1,415.46
Beechwood avenue,	.....	54.04	.....	.....	.....	.....	54.04
Belmont avenue,	.....	458.48	16.15	.....	.....	.....	474.63
Belvidere avenue,	9.24	.....	.....	.....	.....	.....	9.24
Berkshire avenue,	693.19	.....	.....	.....	.....	.....	693.19
Berkshire avenue, I. O.,	917.44	61.91	.....	.....	98.08	.....	1,077.43
Berkshire street, I. O.,	.....	84.06	.....	.....	.....	.....	84.06
Beverly street,	1.15	.....	.....	.....	.....	.....	1.15
Biltmore street,	3.00	.....	.....	.....	.....	.....	3.00
Birnie avenue,	.....	.....	.....	.....	9.22	.....	9.22
Birnie avenue extension,	.....	242.23	.....	.....	.....	.....	242.23
Bond street,	.....	44.73	.....	.....	.....	.....	44.73
Boston road,	468.23	.....	56.35	.....	349.19	.....	873.77
Bradford street,	.....	63.62	.....	.....	.....	.....	63.62
Bridge street,	.....	63.38	715.83	.....	.....	.....	779.21
Broadway,	.....	270.74	.....	.....	.....	.....	270.74
Carew street,	16.57	232.35	.....	.....	.....	.....	248.92
Caseland street,	6.35	.....	.....	.....	.....	.....	6.35

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STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Central street,	.....	$415.80	.....	.....	.....	.....	$415.80
Charles street,	.....	165.26	.....	.....	.....	.....	165.26
Cherry street,	$1.85	.....	.....	.....	.....	.....	1.85
Chestnut street,	.....	891.85	.....	.....	.....	.....	891.85
Chestnut street, I. O.,	2.50	.....	.....	.....	.....	.....	2.50
Cleveland street,	8.78	.....	.....	.....	.....	.....	8.78
Chicopee road,	7.80	.....	.....	.....	.....	.....	7.80
Colonial avenue,	8.25	.....	.....	.....	.....	.....	8.25
Commonwealth avenue,	3.70	.....	.....	.....	.....	.....	3.70
Converse street,	14.80	.....	.....	.....	.....	.....	14.80
Cooley street,	294.66	.....	.....	.....	.....	.....	294.66
Coomes street,	20.27	.....	.....	.....	.....	.....	20.27
Cottage street,	33.14	.....	.....	.....	.....	.....	33.14
Dale street,	.....	5.74	.....	.....	.....	.....	5.74
Dexter street,	1.85	.....	.....	.....	.....	.....	1.85
Dickinson street,	.....	353.34	.....	.....	.....	.....	353.34
Dwight street,	.....	.....	$400.43	.....	.....	.....	400.43
Dwight road,	274.32	.....	.....	.....	.....	.....	274.32
East Alvord street,	3.70	.....	.....	.....	.....	.....	3.70
Elm street,	.....	10.72	.....	.....	.....	.....	10.72
Euclid avenue,	.....	67.63	.....	.....	.....	.....	67.63
Ferry street,	.....	.....	7.03	.....	.....	.....	7.03
Firglade avenue,	.....	55.11	.....	.....	.....	.....	55.11
Fisk avenue,	.....	257.53	.....	.....	.....	.....	257.53
Forest avenue,	.....	.....	.....	.....	$128.33	.....	128.33
Forest Park avenue,	.....	127.18	.....	.....	.....	.....	127.18

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STREET MAINTENANCE.

REPAIRS.

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Abbe avenue,	.....	$77.56	.....	.....	.....	.....	$77.56
Albany street,	.....	140.50	.....	.....	.....	.....	140.50
Allen street,	$2,385.09	.....	.....	.....	$174.74	.....	2,559.83
Arch street,	.....	.....	.....	.....	.....	$105.28	105.28
Armory street,	.....	136.15	$13.16	.....	.....	.....	149.31
Ashley street,	.....	92.77	.....	.....	.....	.....	92.77
Avon place,	.....	4.07	.....	.....	.....	.....	4.07
Bay street,	.....	.....	15.62	.....	.....	.....	15.62
Bay road,	1,415.46	.....	.....	.....	.....	.....	1,415.46
Beechwood avenue,	.....	54.04	.....	.....	.....	.....	54.04
Belmont avenue,	.....	458.48	16.15	.....	.....	.....	474.63
Belvidere avenue,	9.24	.....	.....	.....	.....	.....	9.24
Berkshire avenue,	693.19	.....	.....	.....	.....	.....	693.19
Berkshire avenue, I. O.,	917.44	61.91	.....	.....	98.08	.....	1,077.43
Berkshire street, I. O.,	.....	84.06	.....	.....	.....	.....	84.06
Beverly street,	1.15	.....	.....	.....	.....	.....	1.15
Biltmore street,	3.00	.....	.....	.....	.....	.....	3.00
Birnie avenue,	.....	.....	.....	.....	9.22	.....	9.22
Birnie avenue extension,	.....	242.23	.....	.....	.....	.....	242.23
Bond street,	.....	44.73	.....	.....	.....	.....	44.73
Boston road,	468.23	.....	56.35	.....	349.19	.....	873.77
Bradford street,	.....	63.62	.....	.....	.....	.....	63.62
Bridge street,	.....	63.38	715.83	.....	.....	.....	779.21
Broadway,	.....	270.74	.....	.....	.....	.....	270.74
Carew street,	16.57	232.35	.....	.....	.....	.....	248.92
Caseland street,	6.35	.....	.....	.....	.....	.....	6.35

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STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Central street,	.....	$415.80	.....	.....	.....	.....	$415.80
Charles street,	.....	165.26	.....	.....	.....	.....	165.26
Cherry street,	$1.85	.....	.....	.....	.....	.....	1.85
Chestnut street,	.....	891.85	.....	.....	.....	.....	891.85
Chestnut street, I. O.,	2.50	.....	.....	.....	.....	.....	2.50
Cleveland street,	8.78	.....	.....	.....	.....	.....	8.78
Chicopee road,	7.80	.....	.....	.....	.....	.....	7.80
Colonial avenue,	8.25	.....	.....	.....	.....	.....	8.25
Commonwealth avenue,	3.70	.....	.....	.....	.....	.....	3.70
Converse street,	14.80	.....	.....	.....	.....	.....	14.80
Cooley street,	294.66	.....	.....	.....	.....	.....	294.66
Coomes street,	20.27	.....	.....	.....	.....	.....	20.27
Cottage street,	33.14	.....	.....	.....	.....	.....	33.14
Dale street,	.....	5.74	.....	.....	.....	.....	5.74
Dexter street,	1.85	.....	.....	.....	.....	.....	1.85
Dickinson street,	.....	353.34	.....	.....	.....	.....	353.34
Dwight street,	.....	.....	$400.43	.....	.....	.....	400.43
Dwight road,	274.32	.....	.....	.....	.....	.....	274.32
East Alvord street,	3.70	.....	.....	.....	.....	.....	3.70
Elm street,	.....	10.72	.....	.....	.....	.....	10.72
Euclid avenue,	.....	67.63	.....	.....	.....	.....	67.63
Ferry street,	.....	.....	7.03	.....	.....	.....	7.03
Firglade avenue,	.....	55.11	.....	.....	.....	.....	55.11
Fisk avenue,	.....	257.53	.....	.....	.....	.....	257.53
Forest avenue,	.....	.....	.....	.....	$128.33	.....	128.33
Forest Park avenue,	.....	127.18	.....	.....	.....	.....	127.18

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STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Fort street,	.....	$14.68	.....	.....	.....	.....	$14.68
Fort Pleasant avenue,	.....	370.15	.....	.....	.....	.....	370.15
Fremont street,	.....	12.30	.....	.....	.....	.....	12.30
Girard avenue,	$1.15	.....	.....	.....	.....	.....	1.15
Glendell terrace,	6.13	.....	.....	.....	.....	.....	6.13
Gordon street,	.....	63.76	.....	.....	.....	.....	63.76
Grand street,	1.85	.....	.....	.....	.....	.....	1.85
Gray's avenue,	.....	91.11	.....	.....	.....	.....	91.11
Gunn square,	3.00	.....	.....	.....	.....	.....	3.00
Hall street,	.....	50.32	.....	.....	.....	.....	50.32
Hampden street,	.....	69.06	.....	.....	.....	.....	69.06
Hancock street,	9.70	.....	.....	.....	.....	.....	9.70
Harvey street,	127.85	.....	.....	.....	.....	.....	127.85
Herman street,	16.78	.....	.....	.....	.....	.....	16.78
Hickory street,	273.49	34.59	.....	.....	.....	.....	308.08
Howard street,	.....	10.54	.....	.....	.....	.....	10.54
Jefferson avenue,	.....	76.95	.....	.....	.....	.....	76.95
Johnson street,	3.70	.....	.....	.....	.....	.....	3.70
King street,	5.55	.....	.....	.....	.....	.....	5.55
Knox street,	3.70	.....	.....	.....	.....	.....	3.70
Ladd street,	5.10	.....	.....	.....	.....	.....	5.10
Ledyard street,	235.60	.....	.....	.....	.....	.....	235.60
Lester street,	1.85	.....	.....	.....	.....	.....	1.85
Liberty street,	98.44	169.51	$236.78	.....	.....	.....	504.73
Longhill street,	239.66	.....	.....	.....	.....	.....	239.66
Longview street,	34.60	27.33	.....	.....	.....	.....	61.93

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STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Lyman street,	.....	$220.27	.....	.....	.....	.....	$220.27
Magazine street,	.....	.....	$20.12	.....	.....	$22.63	42.75
Main street,	.....	10.00	568.45	.....	.....	.....	578.45
Main street, I. O.,	$60.00	822.58	.....	.....	$87.13	.....	969.71
Malden street,	1.85	.....	.....	.....	.....	.....	1.85
Mansfield street,	19.03	.....	.....	.....	.....	.....	19.03
Maple street,	.....	499.56	.....	.....	.....	.....	499.56
Marion street,	1.15	.....	.....	.....	.....	.....	1.15
Market street,	.....	9.41	.....	.....	.....	.....	9.41
Marshall street,	35.62	.....	.....	.....	.....	.....	35.62
McKnight street,	1.15	.....	.....	.....	.....	.....	1.15
Melrose street,	1.85	.....	.....	.....	.....	.....	1.85
Mill street,	.....	199.33	.....	.....	.....	.....	199.33
Mulberry street,	.....	60.12	.....	.....	.....	.....	60.12
Myrtle street, I. O.,	1.50	.....	.....	.....	.....	.....	1.50
Newman street,	113.15	.....	.....	.....	.....	.....	113.15
North street,	.....	87.45	.....	.....	.....	.....	87.45
Northampton avenue,	1.85	.....	.....	.....	.....	.....	1.85
North Main street,	.....	.....	101.73	.....	.....	.....	101.73
Oak street,	.....	81.46	.....	.....	.....	.....	81.46
Oak street, I. O.,	267.49	49.45	.....	.....	16.26	.....	333.20
Oakland street,	.....	22.18	.....	.....	.....	.....	22.18
Orlando street,	1.85	.....	.....	.....	.....	.....	1.85
Oxford street,	.....	223.04	.....	.....	.....	.....	223.04
Ozark street,	1.85	.....	.....	.....	.....	.....	1.85
Page boulevard,	437.00	1,614.26	.....	.....	.....	17.65	2,068.91

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STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Park street,	.....	$65.78	.....	.....	.....	.....	$65.78
Parker street, I. O.,	$2,145.78	.....	.....	.....	$153.77	.....	2,299.55
Pasco road,	470.40	.....	.....	.....	13.55	.....	483.95
Pearl street,	.....	233.46	.....	.....	.....	.....	233.46
Pease street,	1.15	.....	.....	.....	.....	.....	1.15
Pecousic avenue,	.....	224.96	.....	.....	.....	.....	224.96
Plumtree road,	402.69	.....	.....	.....	.....	.....	402.69
Pomona street,	3.70	.....	.....	.....	.....	.....	3.70
Prescott street,	316.37	.....	.....	.....	.....	.....	316.37
Pynchon street,	.....	.....	$33.67	.....	.....	.....	33.67
Randolph street,	.....	71.17	.....	.....	.....	.....	71.17
Ranney street,	3.70	.....	.....	.....	.....	.....	3.70
Rittenhouse terrace,	2.77	.....	.....	.....	.....	.....	2.77
Rumrill road,	916.42	.....	.....	.....	.....	.....	916.42
Sachem street,	48.17	.....	.....	.....	.....	.....	48.17
Shattuck street,	6.05	.....	.....	.....	.....	.....	6.05
Sixteen Acre road,	253.14	.....	.....	.....	14.33	.....	267.47
Smith street,	1.85	.....	.....	.....	.....	.....	1.85
Somerset street,	3.70	.....	.....	.....	.....	.....	3.70
Southampton street,	1.15	.....	.....	.....	.....	.....	1.15
South Main street,	.....	24.03	.....	.....	.....	.....	24.03
Springfield street,	.....	406.33	.....	.....	.....	.....	406.33
State street,	.....	164.65	129.94	.....	.....	.....	294.59
Stearns square,	.....	254.95	.....	.....	.....	.....	254.95
St. James avenue,	.....	189.18	39.41	.....	19.64	.....	248.23
St. James boulevard,	26.78	.....	.....	.....	.....	.....	26.78

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STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Stoney Hill road,	$16.16	.....	.....	.....	.....	.....	$16.16
Summer street,	.....	.....	$83.41	.....	.....	.....	83.41
Sumner avenue,	706.98	$440.73	.....	.....	.....	.....	1,147.71
Sumner avenue extension,	184.21	.....	.....	.....	.....	.....	184.21
Sundry streets,	125.62	7,700.79	10.56	$2,193.63	$47.54	$2,377.68	12,455.82
Sundry streets, I. O.,	626.88	27.36	.....	.....	107.17	.....	761.41
Sylvan avenue,	767.73	.....	.....	.....	.....	.....	767.73
Taylor street,	.....	58.32	.....	.....	.....	.....	58.32
Temple street,	.....	115.48	.....	.....	.....	.....	115.48
Tinkham road,	62.42	.....	.....	.....	.....	.....	62.42
Trafton road,	4.50	.....	.....	.....	.....	.....	4.50
Trinity terrace,	291.79	.....	.....	.....	.....	.....	291.79
Union street,	.....	28.72	.....	.....	.....	.....	28.72
Vermont street,	7.08	.....	.....	.....	.....	.....	7.08
Virginia street,	24.75	.....	.....	.....	.....	.....	24.75
Walnut street,	.....	.....	54.00	.....	.....	.....	54.00
Walnut court,	14.13	.....	.....	.....	.....	.....	14.13
Warwick street,	.....	2.69	.....	.....	.....	.....	2.69
Washington street,	.....	60.73	.....	.....	.....	.....	60.73
Water street,	.....	1,527.95	40.53	.....	.....	.....	1,568.48
Wendell place,	23.38	.....	.....	.....	.....	.....	23.38
West street,	.....	.....	.....	.....	30.66	.....	30.66
West Alvord street,	2.77	.....	.....	.....	.....	.....	2.77
Westford avenue,	348.14	.....	.....	.....	.....	.....	348.14
Westford circle,	3.00	.....	.....	.....	.....	.....	3.00
White street,	5.55	249.47	.....	.....	.....	.....	255.02

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STREET MAINTENANCE.

REPAIRS.—*Concluded.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Wilbraham avenue,	.....	$38.05	.....	.....	.....	.....	$38.05
Wilbraham road,	$3,088.01	28.20	.....	.....	$126.39	.....	3,242.60
Wilcox street,	.....	4.30	.....	.....	.....	.....	4.30
William street,	.....	4.29	.....	.....	.....	.....	4.29
Willow street,	.....	.....	$17.12	.....	.....	.....	17.12
Wilmont street,	1.85	.....	.....	.....	.....	.....	1.85
Worcester street, I. O.,	492.12	106.09	.....	.....	43.33	.....	641.54
Worthington street,	.....	120.83	826.55	.....	.....	.....	947.38
Totals,	$20,005.72	$21,414.67	$3,386.84	$2,193.63	$1,419.33	$2,523.24	$50,943.43

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GENERAL REPAIRS.

ASSESSABLE COST.

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Acushnet avenue,	$1.81	....	$1.81
Adams street,	2.92	....	2.92
Albemarle avenue,	8.68	....	8.68
Allen street,	8 44	....	8.44
Allendale street,	2.98	....	2.98
Arch street,	4.76	....	4.76
Armory street,	91.30	$16.38	107.68
Ashley street,	20.30	....	20.30
Ashmun street,	5.56	....	5.56
Bancroft street,	3.04	....	3.04
Bartlett street,	15.26	....	15.26
Bay street,	259.77	178.57	438.34
Beacon street,	3.04	....	3.04
Belmont avenue,	44.50	107.43	151.93
Berkeley street,	2.00	....	2.00
Bloomfield street,	38.47	....	38.47
Bond street,	5.48	....	5.48
Bowdoin street,	13.15	....	13.15
Bowles street,	4.22	....	4.22
Boylston street,	8.24	....	8.24
Bradford street,	2.55	....	2.55
Bridge street,	....	85.28	85.28
Broad street,	5.81	....	5.81
Broadway,	5.81	....	5.81
Brookline avenue,	10.42	....	10.42
Bryant street,	3.28	....	3.28
Buckingham street,	2.43	....	2.43
Byers street,	10.87	....	10.87
Calhoun street,	12.33	....	12.33
Cambridge street,	22.53	....	22.53
Carew street,	188.96	5.13	194.09
Catherine street,	....	5.48	5.48
Cedar street,	1.37	....	1.37
Central street,	22.24	....	22.24
Chapin terrace,	183.99	....	183.99
Charles street,	8.99	....	8.99
Chestnut street,	23.10	287.47	310.57
Church street,	27.19	....	27.19
Churchill street,	4.64	....	4.64
Clantoy street,	10.50	....	10.50
Clarendon street,	1.88	....	1.88
Clifford street,	7.83	....	7.83
Clifton avenue,	2.62	....	2.62
Cliftwood street,	3.42	....	3.42
College street,	2.98	....	2.98
Commonwealth avenue,	8.23	....	8.23

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GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Congress street,	$289.52	....	$289.52
Cornell place,	2.55	....	2.55
Cornell street,	2.14	....	2.14
Cortland street,	5.31	....	5.31
Court street,	....	$20.79	20.79
Cumberland street,	9.06	....	9.06
Dartmouth street,	2.80	....	2.80
Dawes street,	40.01	....	40.01
Demond avenue,	3.42	....	3.42
Dickinson street,	26.47	....	26.47
Dorchester street,	10.29	....	10.29
Douglas street,	3.21	....	3.21
Dunmoreland street,	42.39	....	42.39
Dwight street,	....	695.05	695.05
Eagle street,	4.82	....	4.82
Eastern avenue,	3.10	19.98	23.08
Elm street,	....	31.90	31.90
Elliot street,	13.76	....	13.76
Emery street,	....	22.10	22.10
Essex street,	14.78	....	14.78
Euclid avenue,	18.33	....	18.33
Farnsworth street,	32.04	....	32.04
Ferry street,	....	8.91	8.91
Firglade avenue,	9.26	....	9.26
Florence street,	15.10	....	15.10
Florida street,	14.94	....	14.94
Forest Park avenue,	5.44	....	5.44
Franklin street,	3.90	....	3.90
Fremont street,	17.75	....	17.75
Gardner street,	2.09	....	2.09
Garfield street,	28.79	....	28.79
George street,	13.16	....	13.16
Grant street,	2.67	....	2.67
Granville street,	3.64	....	3.64
Gray's avenue,	2.71	....	2.71
Greenacre square,	6.52	....	6.52
Greenleaf street,	3.15	....	3.15
Greenwood street,	30.62	....	30.62
Grenada terrace,	28.72	....	28.72
Grosvenor street,	3.02	....	3.02
Gunn square,	7.85	....	7.85
Hall street,	7.79	....	7.79
Hamburg street,	3.69	....	3.69
Hampden street,	24.19	....	24.19
Hancock street,	11.90	....	11.90
Harriet street,	23.67	....	23.67

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GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Harrison avenue,	....	$41.24	$41.24
Harvard street,	$4.22	....	4.22
Hiawatha street,	7.37	....	7.37
Hickory street,	3.86	....	3.86
High street,	15.36	....	15.36
Hollywood street,	10.15	....	10.15
Homer street,	7.09	....	7.09
Horace street,	30.33	....	30.33
Howard street,	1.44	....	1.44
James street,	5.61	....	5.61
John street,	9.57	....	9.57
Keith street,	8.60	....	8.60
Kenwood Park,	2.40	....	2.40
King street,	2.68	11.18	13.86
Lafayette street,	3.69	....	3.69
Lebanon street,	15.22	....	15.22
Lenox street,	5.05	....	5.05
Liberty street,	....	61.48	61.48
Linden street,	12.99	....	12.99
Locust street,	....	6.54	6.54
Lombard street,	7.91	....	7.91
Longhill street,	9.87	....	9.87
Loring street,	2.55	....	2.55
Lowell street,	3.44	....	3.44
Lyman street,	66.96	....	66.96
Lyndale street,	17.86	....	17.86
Madison avenue,	2.87	....	2.87
Magazine street,	....	15.21	15.21
Magnolia terrace,	4.60	....	4.60
Main street, Indian Orchard,	....	23.91	23.91
Main street,	6.76	389.66	396.42
Manhattan street,	4.37	....	4.37
Maple street,	3.45	170.64	174.09
Mapledell street,	8.34	....	8.34
Marble street,	4.56	....	4.56
Marengo park,	2.35	....	2.35
Marion street,	28.85	....	28.85
Market street,	6.96	....	6.96
Massachusetts avenue,	8.03	....	8.03
Massasoit street,	14.92	....	14.92
McKnight street,	3.64	....	3.64
Memorial Square,	....	4.65	4.65
Middlesex street,	3.34	....	3.34
Mill street,	8.04	....	8.04
Monmouth street,	7.90	....	7.90
Monroe street,	3.83	....	3.83

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GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Montrose street,	$13.61	....	$13.61
Morris street,	9.63	....	9.63
Mulberry street,	17.31	....	17.31
Murray Hill avenue,	12.13	....	12.13
Nelson street,	4.53	....	4.53
Norfolk street,	10.36	....	10.36
North street,	41.27	....	41.27
North Main street,	3.13	$2,015.20	2,018.33
Northampton avenue,	10.67	....	10.67
Norwood street,	1.82	....	1.82
Oak street, Indian Orchard,	....	25.74	25.74
Oak street,	9.36	....	9.36
Oak grove avenue,	14.54	....	14.54
Oakland street,	22.90	....	22.90
Olive street,	2.99	....	2.99
Orange street,	28.82	....	28.82
Orleans street,	6.20	....	6.20
Osgood street,	3.21	....	3.21
Page boulevard,	7.97	....	7.97
Palmer avenue,	3.42	....	3.42
Park street,	1.17	171.46	172.63
Parkwood street,	8.23	....	8.23
Patton street,	6.10	....	6.10
Pearl street,	9.47	....	9.47
Pecousic avenue,	133.30	....	133.30
Pendleton avenue,	3.95	....	3.95
Pine street,	50.84	....	50.84
Plainfield street,	1.29	6.92	8.21
Pomona street,	7.43	....	7.43
Princeton street,	9.80	....	9.80
Prospect street,	6.87	....	6.87
Pynchon street,	....	20.98	20.98
Quincy street,	17.05	....	17.05
Reed street,	3.78	....	3.78
Revere street,	9.37	....	9.37
Ridgewood terrace,	6.81	....	6.81
Ringgold street,	6.82	....	6.82
Riverview terrace,	4.36	....	4.36
Rochelle street,	8.45	....	8.45
Salem street,	10.37	....	10.37
Sargeant street,	3.26	....	3.26
Seventh street,	2.54	....	2.54
Scott street,	4.94	....	4.94
Sharon street,	25.95	....	25.95
Sherman street,	283.01	....	283.01
Silver street,	3.34	....	3.34

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GENERAL REPAIRS.

ASSESSABLE COST.—*Concluded.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
South Main street,	$2.90	....	$2.90
Spring street,	....	$9.60	9.60
Springfield street,	740.96	....	740.96
Spruce street,	1.25	....	1.25
Spruceland avenue,	3.51	....	3.51
State street,	3.54	1,047.67	1,051.21
Stearns square,	69.37	....	69.37
Stebbins street,	9.09	....	9.09
St. James avenue,	226.97	7.13	234.10
Stockbridge street,	....	3.03	3.03
Summer street,	2.87	15.57	18.44
Sumner avenue,	61.10	17.03	78.13
Taylor street,	....	26.29	26.29
Tenth street,	17.04	....	17.04
Thompson street,	5.83	....	5.83
Tyler street,	17.39	....	17.39
Union street,	118.59	9.81	128.40
Vernon street,	....	26.98	26.98
Vinton street,	1.91	....	1.91
Wolcott street,	20.65	....	20.65
Walnut street,	....	150.42	150.42
Walter street,	10.59	....	10.59
Warner street,	4.46	....	4.46
Warwich avenue,	5.69	....	5.69
Washington boulevard,	4.36	....	4.36
Water street,	52.86	4.73	57.59
Waverly street,	28.64	....	28.64
Webster street,	3.92	....	3.92
Wellesley street,	6.94	....	6.94
West Court street,	....	10.56	10.56
Westminster street,	9.34	....	9.34
White street,	9.96	....	9.96
Whitney place,	23.58	....	23.58
Whittier avenue,	15.91	....	15.91
Wilbraham avenue,	11.29	....	11.29
Wilbraham road,	34.08	10.55	44.63
Wilcox street,	2.36	....	2.36
Willard avenue,	4.55	....	4.55
William street,	3.59	4.13	7.72
Willow street,	....	465.73	465.73
Windsor street,	3.37	....	3.37
Woodside terrace,	36.16	....	36.16
Worcester avenue,	7.22	....	7.22
Worthington street,	312.92	155.74	468.66
Yale street,	4.90	....	4.90
York street,	22.39	....	22.39
Totals,	$5,063.91	$6,414.25	$11,478.16

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SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.
BY ORDER OF THE CITY COUNCIL.

Street.	Sidewalks.		Length in feet.	Curbing Length in feet.		Ordered Approved.
	Material.	Description.		4″	6″	
Alderman street,	Concrete,	New,	188	.....	.....	Sept. 6, 1916.
Amherst street,	Concrete,	New,	50	.....	.....	Nov. 9, 1916.
*Bay street,	Concrete,	New,	315	.....	.....	Nov. 9, 1915.
Belmont avenue (Sumner avenue to White street),	Concrete,	New,	334	.....	.....	Nov. 16, 1915.
Belmont avenue (Woodside avenue to Bellevue),	Concrete,	New,	476	.....	.....	Dec. 19, 1916.
Berendo street,	Concrete,	New,	185	.....	.....	May 23, 1916.
Berkshire street, I. O.,	.....	.....	.....	1,356	.....	Dec. 30, 1916.
Birnie avenue,	.....	.....	.....	4,930	.....	April 24, 1917.
Bowdoin street,	Concrete,	New,	96	.....	.....	Nov. 16, 1915.
Buckingham street,	Concrete,	New,	301	.....	.....	Nov. 20, 1915.
*Carew street (Driscoll's by-pass),	.....	.....	.....	.....	1,429	May 15, 1916.
Catharine street,	Concrete,	New,	100	.....	.....	June 27, 1916.
Centre street, I. O.,	.....	.....	.....	637	.....	Sept. 6, 1916.
Center street,	.....	.....	.....	1,648	.....	June 11, 1917.
Clarendon street,	Concrete,	New,	150	.....	.....	Jan. 16, 1916.
College street,	Concrete,	New,	429	.....	.....	June 27, 1916.
Colonial avenue,	Concrete,	New,	213	.....	.....	June 1, 1916.
Coomes street,	.....	.....	.....	889	.....	May 28, 1917.
*Crane street,	.....	.....	.....	835	.....	Nov. 14, 1916.
Dickinson street,	Concrete,	New,	689	.....	.....	July 2, 1917.
Florida street,	Concrete,	New,	148	.....	.....	Nov. 8, 1915.
Fulton street,	Concrete,	New,	410	.....	.....	June 6, 1916.
*Genesee street,	.....	.....	.....	1,352	.....	Nov. 14, 1916.
Gordon street,	Concrete,	New,	565	.....	.....	June 1, 1916.

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SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.
BY ORDER OF THE CITY COUNCIL.—*Continued.*

Street.	Sidewalks.		Length in feet.	Curbing. Length in feet.		Ordered Approved.
	Material.	Description.		4″	6″	
Grand street,	Concrete,	New,	169	.....	.....	May 15, 1916.
Grenada terrace,	Concrete,	New,	98	.....	.....	May 23, 1916.
*Hampden street, I. O.,	.....	.....	.....	987	.....	June 6, 1916.
Hancock street,	.....	.....	.....	1,744	.....	June 6, 1916.
Hiawatha street,	Concrete,	New,	56	.....	.....	June 1, 1916.
Ingersoll Grove,	Concrete,	New,	821	.....	.....	Oct. 4, 1915.
Kenwood Park,	Concrete,	New,	241	.....	.....	July 9, 1917.
King street (N. E. R. R. to Wilbraham avenue),	.....	.....	.....	100	.....	Sept. 10, 1917.
Lafayette street,	Concrete,	New,	50	.....	.....	Nov. 8, 1915.
Leonard street,	.....	.....	.....	788	.....	July 9, 1917.
Locust and Mill streets junction,	Concrete,	New,	144	.....	.....	July 2, 1917.
Longview street,	.....	.....	.....	1,092	.....	June 18, 1917.
580 Main street,	.....	.....	.....	.....	12	May 14, 1917.
580 Main street,	Concrete,	New,	11	.....	.....	May 14, 1917.
Mason street,	Concrete,	New,	390	.....	.....	June 27, 1917.
Maynard street,	Concrete,	New,	253	.....	.....	June 6, 1917.
Mill street,	.....	.....	.....	.....	530	Oct. 3, 1916.
North Main street,	Concrete,	New,	721	.....	.....	June 6, 1916.
*257 Oak street,	.....	.....	.....	88	.....	July 11, 1916.
Pasco road, I. O.,	.....	.....	.....	1,097	.....	Dec. 30, 1916.
Pease street,	.....	.....	.....	181	.....	Sept. 10, 1917.
*Plainfield street,	.....	.....	.....	.....	7,587	Dec. 21, 1915.
Plymouth street,	Concrete,	New,	251	.....	.....	June 6, 1916.
Salem street,	Concrete,	New,	118	.....	.....	July 11, 1916.
Shattuck street,	Concrete,	New,	232	.....	.....	May 23, 1916.

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SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.
BY ORDER OF THE CITY COUNCIL.—*Concluded.*

Street.	Sidewalks.		Length in feet.	Curbing. Length in feet.		Order Approved.
	Material.	Description.		4"	6"	
Shattuck street,	.....	.....	.....	551	.....	Nov. 14, 1916.
Smith street,	.....	.....	.....	336	.....	Sept. 6, 1916.
Sorrento street,	Concrete,	New,	50	.....	.....	May 23, 1916.
Sorrento street, Nos. 16-18,	Concrete,	New,	50	.....	.....	May 28, 1917.
St. James avenue and Dartmouth street,	.....	.....	.....	32	.....	Aug. 10, 1917.
St. James avenue,	Concrete,	New,	417	.....	.....	Jan. 11, 1916.
State street,	Concrete,	New,	307	.....	.....	June 27, 1916.
Sumner avenue (Longhill street to White street),	Concrete,	New,	548	.....	.....	June 14, 1916.
Thompson street,	Concrete,	New,	319	.....	.....	Nov. 8, 1915.
Union street,	Concrete,	New,	194	.....	.....	Nov. 14, 1917.
Ventura street,	Concrete,	New,	200	.....	.....	May 23, 1916.
Wait street,	.....	.....	.....	2,857	.....	April 27, 1917.
Walnut and Oak streets junction,	Concrete,	New,	36	.....	.....	April 24, 1917.
Walnut and Oak streets junction,	.....	.....	.....	54	.....	April 24, 1917.
White street,	.....	.....	.....	2,525	.....	June 8, 1917.
Whittier avenue,	Concrete,	New,	276	.....	.....	May 23, 1916.
Worcester street, I. O.,	Concrete,	New,	412	.....	.....	July 9, 1917.
Yale street,	Concrete,	New,	275	.....	.....	May 15, 1916.
Totals,	.....	.....	11,288	24,079	9,558	.....

*Completion of 1916 work.

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REPORT

OF THE

SEWER DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917.

Mr. F. H. Clark, Superintendent, Department of Streets and Engineering.

DEAR SIR:—I herewith submit a description of the work done by the Sewer Division, Department of Streets and Engineering, during the year ending November 30, 1917.

GENERAL DESCRIPTIONS.

The total expenditures for new sewer construction and reconstruction during the year amounted to $47,719.27. Deducting the cost of sewers abandoned, amounting to $1,610.78, leaves $46,108.49 to be added to the value of the sewer system as of November 30, 1917.

The total value of our system on November 30, 1917, was accordingly $1,830,974.28 and embraced a total of 150.1 miles of sewers in the care of this department.

The amount expended in repairs to the system was $6,195.81; in cleaning, $4,391.82; and in flushing the same, $4,019.65. As usual all sewer construction during the year has been done directly by this division.

The receipts from entrances, exclusive of the fees on account of building private drains, amounted to $25,055.79 and the number of connections made to buildings during the year was 401.

The length of pipe sewers laid during the year was 15,263 feet; concrete 680 feet; and segment blocks 170 feet.

This is the smallest amount of new work accomplished by the Sewer Division for a number of years. The shortage of labor has prevented the carrying out of considerable work planned, and for which there is a demand. At no time during the season have we been able to secure enough help to prosecute new construction work with the speed or efficiency necessary to accomplish results desired, consequently considerable

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work ordered has been carried over to next year. We have, however, been able to keep up the maintenance work necessary. Repairs, flushing, and cleaning have been carried on as demand required to keep the system up to the usual standard.

Several very severe rain storms during July and August, the amount of waterfall exceeding anything shown by the records of the Engineering Division for over thirty years, badly overcharged many of the trunk sewers, causing the water to back through the connections into cellars where not provided with backwater traps, and considerable damage resulted especially in the business section. A study of the situation and plans to relieve this section by the construction of storm-water sewers are now being made by the Engineering Division.

There is a demand for trunk sewer construction in the outlying sections of the city, due to rapid development in the last few years. Surface water drainage is required for East Springfield, and that section of the city north of State street and east of Oak Grove avenue which is tributary to Carlisle brook.

A trunk sewer to provide surface drainage for the Gunn square section is now under construction, and should be completed this winter if work is not held up by extreme cold weather.

It gives me pleasure to acknowledge the hearty co-operation of the engineers and foremen of this division, and to thank you for the support and courtesies at all times received from you.

Respectfully submitted,

HOWARD O. BUCK,
Deputy Superintendent of Sewers.

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SEWER CONSTRUCTION AND RECONSTRUCTION.

DESCRIPTION AND COSTS—FISCAL YEAR, 1917.

Location	Material	Length in feet	Size	Total Cost	Unit Cost
Albemarle street, from sewer across private land northerly to Westford circle, stormwater, incomplete,	Con.	295	3'-0" cir.	$3,477.08	
Armory street, extension southerly of Grant street,	Clay	199	12"	482.61	$2.43
Athol street, Milford street to Chicopee line,	Clay	600 310	15" 12"	1,300.71	1.43
Baxter avenue, Woodbine avenue westerly,	Clay	300	10"	325.61	1.08
Bay street, I. O., Main to Lawe street,	Clay	439	10"	786.38	1.79
Belvidere avenue, Fountain place to Blake street,	Clay	318 330	15" 12"	1,034.22	1.60
Berkshire street, I. O., extension westerly of Chestnut street,	Clay	180	10"	203.57	1.13
Birnie avenue, extension to Hooker street,	Clay	174	15"	361.04	2.08
Bowles park, Ardmore street to Osborne terrace, completion,	Clay	175	10"	144.24	.82
Chestnut street, extension northerly of Lyman, to Liberty street,	Clay	258	12"	595.36	2.31
Chestnut street, Greenwood street northerly, extension and relaying,	Clay	242	12"	1,038.03	4.29
Chicopee road, Carew street southerly,	Clay	656	10"	1,033.72	1.58
Coomes street, extension southerly,	Clay	161	12"	492.28	3.06
Crane street, extension northerly,	Clay	139	10"	291.60	2.10
Crown street, White street easterly,	Clay	341 135 91	15" 12" 10"	932.22	1.64
Dwight road, White to Leslie street,	Clay	346 348	18" 15"	2,075.78	2.99
Fresno street, Page boulevard easterly,	Clay	935	10"	4,205.84	4.50
Greenacre square, extension northerly,	Clay	100	10"	130.97	1.31
Healey avenue, I. O., Clermont to South street, completion,	Clay	283	15"	785.99	2.78
Healey avenue, I. O., South street southerly,	Clay	350 84	12" 10"	575.54	1.32
Kimberly avenue, Mansfield to Burton street,	Clay	197	10"	329.58	1.67

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SEWER CONSTRUCTION AND RECONSTRUCTION.—*Continued.*

Location	Material	Length in feet	Size	Total Cost	Unit Cost
Leonard street, extension northerly,	Clay	52	10″	$124.98	$2.40
Longview street, extension southerly,	Clay	248	10″	1,163.38	4.69
Manitoba street, White to Blaine street,	Clay	247 256 27?	15″ 12″ 10″	1,037.77	1.34
Mansfield street, extension to Kimberly avenue,	Clay	115 341	15″ 12″	914.13	2.00
Marlborough street, Middlesex to Suffolk street,	Clay	172	10″	177.34	1.03
Milford street, Farnsworth to Athol street,	Clay	295	15″	690.49	2.42
Noel street, extension to Oakland street,	Clay	380 486 252	15″ 12″ 10″	1,943.28	1.74
North street, Cumberland street southerly,	Clay	154	10″	282.67	1.84
Orchard street, I. O., South street southerly,	Clay	275 350	12″ 10″	1,123.49	1.80
Palm street, Crown street northerly,	Clay	320	10″	.351.32	1.10
Plainfield street, extension southerly of Lowell street,	Clay	92	10″	121.95	1.32
Private land, Albemarle street easterly to brook channel, stormwater incomplete,	Con	135	3′-0″ cir.	1,591.20	
Redlands street, Page boulevard to Oklahoma street,	Clay	1,058	10″	2,420.48	2.29
Rimmon street, Hamburg street northerly,	Clay	251 254	12″ 10″	787.19	1.56
Rochelle street, extension southerly,	Clay	175	10″	121.45	.69
Rockland street, Sumner avenue northerly,	Clay	549	12″	717.51	1.30
South street, I. O., Healey avenue to Orchard avenue,	Clay	125	12″	283.85	2.28
South street, I. O., Healey avenue to East street,	Clay	151 221	12″ 10″	479.71	1.29
State street terrace, Shattuck avenue southerly,	Clay	254	10″	217.57	.86
Sylvan street, extension southerly of Fountain place,	Clay	151	12″	266.92	1.77

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SEWER CONSTRUCTION AND RECONSTRUCTION.—*Concluded.*

Location	Material	Length in feet	Size	Total Cost	Unit Cost
West street, completion,.....	Clay			$39.10	
Westford circle, Albemarle street westerly, stormwater, incomplete,	Seg. Blk.	170	3'-0" cir.	2,003.74	
Winter street, extension easterly,...	Clay	75	20"	572.37	$7.63
Worthington street, at Kibbe Hollow, relaying,.....	Con.	125	2'-2" cir.	3,210.91	
		125	2'-8"x 4'-0"		
Total sewer construction, 1917,...		16,113		$41,245.17	

The costs of the above described sewers include the costs of manholes, wellholes and flushgates.

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CONSTRUCTION—MANHOLES.

Location.	Total Cost.	Unit Cost.
Euclid avenue,.....	$97.32	
Franklin street,.....	81.50	$81.50
Marshall place,.....	37.83	37.83
Spruceland avenue,.....	58.56	58.56
Total,.....	$275.21	

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CONSTRUCTION—WELLHOLES.

Location.	Total Cost	Unit Cost.
Armory street,	$44.84	$44.84
Avon place,	35.27	35.27
Berendo street (two),	48.05	24.03
Birnie avenue (eight),	280.74	35.09
Burlington street (two),	72.61	36.30
Burton street (two),	59.97	29.99
Carew street (five),	207.75	41.55
Centre street (five),	153.45	30.69
Chapel street (four),	85.65	21.41
Clyde street (two),	67.50	33.75
Coomes avenue (three),	126.85	42.28
Eastern avenue (two),	56.39	28.20
Garfield street (five),	178.02	35.60
Genesee street (two),	46.62	23.31
Gordon street (three),	71.67	23.89
Hastings street (eleven),	94.22	8.57
Kendall avenue (nine),	64.23	7.14
Ladd street (two),	54.76	27.38
Laurel avenue,	81.91	
Leonard street (two),	62.76	31.38
Longhill street (four),	127.27	31.82
Longview street (two),	101.35	50.68
Maple street,	68.15	68.15
Marshall place (four),	112.17	28.04
Maynard avenue,	35.40	35.40
Newbury street (five),	50.46	10.09
Orlando street (four),	129.33	32.33
Pease street,	35.53	35.53
Pecousic avenue (two),	70.39	35.19
Phœnix terrace (fifteen),	198.65	13.24
Plainfield street (twenty-four),	1,035.61	43.15
Portsmouth street,	7.76	
Prescott street (two),	55.00	27.50
Ruskin street,	24.53	24.53
Sherman avenue (eight),	45.88	5.74
Sorrento street (four),	105.40	26.35
St. James avenue (four),	212.50	53.13
Stockman street (twelve),	129.45	10.79
Union street,	13.75	
Vermont street,	34.20	34.20
Wait street (twelve),	356.91	29.74
White street (five),	225.73	45.15
Worthington street (two),	70.15	35.08
Total,	$5,138.83	

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CONSTRUCTION—FLUSH GATES.

Location.	Total Cost.	Unit Cost.
Bartlett street,	$39.59	$39.59
Beacon street,	26.43	26.43
Belle avenue,	33.20	33.20
Bellevue avenue,	30.67	30.67
Carew street,	42.39	42.39
Chestnut street (three),	99.39	33.13
Court street,	40.19	40.19
Daviston street (two),	76.73	38.37
Fairbanks place,	30.88	30.88
Horace street,	35.86	35.86
Marshall street (two),	64.85	32.43
North Main street,	72.66	72.66
Osborne terrace,	47.72	47.72
Quebec street, I. O.,	38.06	38.06
Ridgewood terrace	43.30	43.30
Rittenhouse terrace,	35.33	35.33
Riverview terrace,	36.21	36.21
Sunapee street,	31.21	31.21
Water street,	111.22	111.22
Wight place,	49.94	49.94
Wigwam place,	35.43	35.43
Woodside terrace,	38.80	38.80
Total cost,	$1,060.06	

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SEWER CONSTRUCTION CLASSIFIED.

VITRIFIED CLAY PIPE.

Sizes.	Length in Feet.		Total Length.
	New Construction.	Reconstruction.	
10″	7,171	...	7,171′
12″	4,397	173	4,570′
15″	3,101	...	3,101′
18″	346	...	346′
20″	75	...	75′
Total,	15,090	173	15,263′

CONCRETE.

Sizes.	Length in Feet.		Total Length.
	New Construction.	Reconstruction.	
2′-2″ circular,		125	125′
2′-8″x4′-0″ egg shaped,		125	125′
3′-0″ circular,	430		430′
Total,	430	250	680′

SEGMENT BLOCK.

Sizes.	Length in Feet.		Total Length.
	New Construction.	Reconstruction.	
3′-0″ circular,	170		170′
Total,	170		170′

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ABANDONED SEWERS—1917.

Location.	Material.	Length in feet.	Sizes.	Cost.
Chestnut street — Greenwood street northerly,.....	Cem.	173	12″	$128.38
Worthington street—Kibbe Hollow to Bowdoin street,...	Con.	125	2′ 2″ Cir.	353.75
Worthington street—near Magazine to Bowdoin street,.....	Brick	125	2′8″x4′0″	1,128.65
Totals,.....		423		$1,610.78

SUMMARY.

Description.	Length in feet.	Cost.
Clay pipe sewers built by regular appropriation,....	15,263	$30,962.24
Concrete sewers built by regular appropriation,.....	680	8,279.19
Segment block sewers built by regular appropriation,	170	2,003.74
Flush gates, manholes, and wellholes built by regular appropriation and added to cost of sewer system,		6,474.10
	16,113	$47,719.27
Sewers abandoned,.....	423	1,610.78
Totals to be added to sewer system,.....	15,690	$46,108.49

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SEWER CLEANING AND REPAIRS.

	COST OF	
	Cleaning.	Repairs.
Acushnet avenue,	....	$14.37
Albany street,	....	37.64
Alden street,	....	7.34
Allen street,	$90.33	....
Amherst street,	....	39.25
Andrew street,	....	36.77
Arbor street,	....	16.74
Armory street,	....	20.43
Ashley street,	....	16.97
Ashmun street,	....	9.47
Auburn street,	....	41.48
Austin street,	....	1.45
Bay street,	24.68	....
Beaumont street,	....	39.45
Beech street,	14.83	....
Belgrade place,	....	4.48
Belmont avenue,	95.02	24.38
Berkshire street, I. O.,	....	2.99
Birnie avenue,	62.00	30.60
Bliss street,	15.78	22.03
Bond street,	....	13.53
Bowdoin street,	26.70	16.25
Boylston street,	....	20.73
Bradford street,	....	14.33
Bridge street,	....	18.49
Bristol street,	....	7.69
Broad street,	....	11.04
Broadway,	....	37.03
Bryant street,	....	5.98
Burton street,	....	6.20
Butler street,	17.63	17.07
Carew street,	....	15.06
Cass street,	....	57.94
Cedar street,	....	2.11
Centre street, I. O.,	....	8.95
Chapel street,	....	7.42
Cherry street,	....	3.64
Chestnut street,	....	32.72
Church street,	....	16.62
Cliftwood street,	10.55	17.39
Clinton street,	....	15.28
College street,	16.89	7.50
Collins street,	29.56	38.66
Colonial avenue,	5.55	60.40
Colton street,	....	59.76
Continental street,	11.32	....
Coomes street,	....	13.02

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SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Cornell street,	$13.72	....
Court street,	....	$5.26
Crane street,	....	13.57
Dale street,	9.23	5.98
Daviston avenue,	....	5.41
Demond avenue,	....	3.49
Dexter street,	....	21.50
Dickinson street,	89.31	657.98
Donald street,	36.48	2.23
Dorchester street,	....	16.04
Dunmoreland street,	....	4.22
Eastern avenue,	....	62.37
Elm street,	....	14.44
Emery street,	....	44.24
Essex street, I. O.,	....	36.30
Euclid avenue,	15.29	....
Everett street,	....	115.13
Federal street,	....	1.46
Firglade avenue,	12.28	....
Florence street,	....	21.29
Forest street,	30.37	32.91
Fort Pleasant avenue,	....	13.20
Franklin street,	25.42	29.07
Fremont street,	27.44	....
Fresno street,	....	5.00
Frost street,	....	4.44
Garden Brook,	978.62	....
Gardner street,	....	35.35
Garfield street,	....	6.34
Genesee street,	....	7.70
Gordon street,	....	13.17
Grace street,	11.27	....
Grant street,	20.42	1.47
Granville street,	13.83	12.76
Gray's avenue,	....	3.33
Greenwich street,	....	43.12
Greenwood street,	....	32.01
Gunn square,	....	5.76
Hampden street, I. O.,	73.35	34.24
Hancock street,	....	72.45
Harvard street,	20.06	....
Hawthorne street,	....	17.87
Hickory street,	....	22.61
High street,	....	2.90
Hillman street,	....	25.32
Holland street,	....	17.96
Holly street, I. O.,	....	1.60

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SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Homer street,	....	$87.80
Howard street,	....	6.33
Hyde avenue,	....	6.23
Ingersoll Grove,	$30.61	....
John street,	....	32.46
Johnson street,	....	94.91
Keith street,	....	131.13
Kenwood Park,	....	26.51
King street,	....	44.53
Knox street,	....	37.32
Ladd street,	11.27	73.64
Lafayette street,	....	52.95
Larkspur street,	....	5.98
Ledyard street,	....	5.98
Lenox street,	19.01	....
Leonard street,	....	23.36
Liberty street,	....	85.51
Linden street,	....	25.55
Logan street,	....	2.78
Longhill street,	....	41.31
Longview street,	....	4.16
Loring street,	....	6.70
Lowell street,	14.68	....
Lyman street,	46.14	....
Madison avenue,	....	5.98
Main street,	868.55	137.54
Main street, I. O.,	....	232.45
Malden street,	30.61	....
Manitoba street,	....	13.84
Maple street,	....	79.76
Mapledell street,	61.22	....
Maplewood terrace,	12 64	4.68
Margaret street,	....	5.06
Marion street,	....	14.47
Market street,	....	8.71
Marshall place,	....	2.98
Massasoit place,	....	1.64
Massasoit street,	....	7.10
Mechanic street,	....	10.57
Merrick avenue,	30.61	....
Mill River intercepting,	43.37	190.82
Mill street,	....	43.88
Monroe street,	....	21.35
Montrose street,	15.32	....
Morgan street,	....	55.79
Morris street,	....	44.04
Mountainview street,	....	3.56

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SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Murray Hill avenue,	....	$45.97
Myrtle street,	....	2.14
Myrtle street, I. O.,	....	1.60
Niagara street,	....	19.54
Noel street,	....	4.43
Norfolk street,	....	47.20
North street,	....	62.46
Northampton avenue,	$27.09	2.79
Norwood street,	13 72	24.14
Oak street, I O.,	....	11.65
Oak Grove avenue,	62.35	....
Olive street,	36.67	99.16
Orange street,	68.94	....
Orleans street,	....	4.85
Ozark street,	25.22	....
Page boulevard,	....	5.98
Park street,	6.29	....
Parkwood street,	30.61	....
Patton street,	....	35.71
Pecousic avenue,	....	17.25
Pendleton avenue,	....	6.99
Pineywoods avenue,	22.46	....
Plainfield street,	....	109.96
Portland street,	....	8.19
Prescott street,	....	7.06
Prospect street,	....	1.64
Pynchon street,	141.86	63.10
Quincy street,	84.98	25.86
Railroad street,	61.76	....
Randolph street,	....	11.96
Reed street,	....	68.98
Revere street,	59.04	2.17
Riverview terrace,	....	83.31
Rupert street,	....	5.98
Rutledge avenue,	....	8.14
Sachem street,	....	8.63
School street,	12.15	....
Seventh street,	....	26.82
Sharon street,	....	117.33
Shattuck street,	50.79	100.79
Sherman street,	....	16.87
South street,	....	27.43
Spring street,	....	16.72
Springfield street,	....	22.43
Spruceland avenue,	32.73	....
State street,	21.52	8.25
Stebbins street,	....	1.76

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SEWER CLEANING AND REPAIRS.—*Concluded.*

	COST OF	
	Cleaning.	Repairs.
Sterns terrace,	....	$3.90
St. James avenue,	....	26.16
Stockbridge street,	....	13.70
Summer street,	....	147.76
Sumner avenue,	$69.08	34.77
Sundry streets,	213.37	....
Talcott avenue,	....	6.38
Tenth street,	....	9.21
Thompson street,	13.83	....
Tyler street,	....	.64
Union street,	51.65	19.37
Vine street,	....	40.52
Walnut street,	....	16.72
Walter street,	....	21.09
Wareham street,	17.01	....
Washington road,	43.04	9.69
Washington street,	....	3.40
Water street,	....	68.04
Webster street,	....	58.06
White street,	....	7.50
Whitney avenue,	1.46	10.27
Wilbraham avenue,	69.82	7.00
Wilcox street,	....	27.80
Willard avenue,	51.29	....
William street,	....	21.98
Wilmont street,	....	173.37
Windsor street,	....	16.04
Worcester avenue,	....	4.71
Worcester street, I. O.,	....	19.52
Worthington street,	121.13	240.15
York street,	....	11.32
Totals,	$4,391.82	$6,195.81

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CITY OF SPRINGFIELD,

SEWER SYSTEM TABULATED TO DECEMBER 1, 1917.

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Abbe ave., Fisk ave., westerly	301	15″	Clay	$520.45	
	275	12″	Clay		
	300	18″	Clay		
Plainfield st., westerly	300	15″	Clay	1,446.64	
	301	12″	Clay		
	200	10″	Clay		
					$1,967.09
*Acorn st., Sycamore to Edgewood st	276	10″	Clay		176.64
Acushnet ave., Main st., easterly	294	20″	Clay		
	279	18″	Clay		298.94
	271	15″	Clay		
	26	12″	Clay		
Adams st., Main to Ashmun st	294	20″	Clay		
	245	18″	Clay	3,322.93	
	323	15″	Clay		
	221	12″	Clay		
Richelieu st., westerly	237	12″	Clay	304.12	
					3,627.05
Albany st., Armory st., easterly	1,083	5′-0″ cir.	Con.		
	478	4′-3″ cir.	Con.		19,645.30
	445	3′-9″ cir.	Con.		
Albemarle st., Wilbraham road, southerly	300	15″	Clay		
	314	12″	Clay	1,098.28	
	421	10″	Clay		
*Westford circle, northerly	564	10″	Clay	499.51	
*Gunn Square brook to Westford circle	329	12″	Clay	333.56	
*Gunn Square brook to King st	259	10″	Clay	268.14	
†From sewer across private land northerly to Westford circle	295	3′-0″ cir.	Con.	3,477.08	
					5,676.57
Alden st., Hancock st. to Eastern ave	595	18″	Cem.	1,861.38	
	820	15″	Cem.		
Eastern ave. to Wilbraham ave	895	15″	Clay	995.10	
Wilbraham ave. to Hickory st	499	10″	Clay	250.86	
					3,107.34
Alderman st., Dickinson to Scott st	296	18″	Clay		
	304	15″	Clay		1,269.59
	300	12″	Clay		
	443	10″	Clay		

* Sanitary sewers. † Storm water.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Alexander st., North st., easterly	288	10″	Clay		$188.48
Alfred st., Birnie ave., easterly	377	10″	Clay		....
Allen ave., Allen st., easterly	338	10″	Clay		232.73
Allen st., Mill river to Oakland st	216	24″	Clay	$576.86	
Mill to Oakland st	365	10″	Clay	447.19	
Oakland st. to Plumtree road	686	24″	Clay	1,832.06	
	383	18″	Clay		
	474	15″	Clay	1,714.47	
	580	12″	Clay		
	1,603	12″	Clay	950.46	
	1,401	10″	Clay	984.62	
					6,505.66
Allendale st., North st., easterly	272	12″	Clay		401.43
	340	10″	Clay		
Amaron st., State st., southerly	349	10″	Clay		238.78
Amherst st., Harvard st., northerly	441	12″	Cem.	146.99	
	25	10″	Clay	23.78	
Princeton to Monmouth st	512	12″	Clay	622.90	
	191	10″	Clay		
					793.67
Andrew st., State st., northerly	463	20″	Clay		1,858.75
	422	18″	Clay		
	382	12″	Clay		
Applewood place, Belmont ave., northerly	469	10″	Clay		391.81
Arbor st., Butler to Carew st	398	12″	Clay		318.05
Arch st. (see Garden brook)					
***Ardmore st.**, Page boulevard to Bowles park	1,486	10″	Clay		1,636.18
Armory hill sewer (see private ways).					
Armory st., Worthington st., southerly	570	15″	Cem.	754.98	
	199	12″	Clay	482.61	
Summer st., southerly	374	12″	Clay	384.78	
	325	10″	Clay	193.87	
B.& A.R.R. to Liberty st.	690	15″	Clay		
	360	12″	Clay	1,187.41	
	271	10″	Clay		
Liberty to Sullivan st.	450	1′-10″x2′-9″	Brick	2,439.42	
	476	1′- 8″x2′-6″	Brick		

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Sullivan to Carew st.....	156	24″	Clay		
	267	20″	Clay	$1,051.29	
	290	12″	Clay		
Carew st., northerly.....	452	20″	Clay		
	803	10″	Clay	1,255.27	
Springfield st., southerly..	31	20″	Clay		
	146	18″	Clay	358.92	
					$8,108.55
Ashley st., Cedar st., easterly.....	65	18″	Cem.	80.45	
	580	15″	Cem.		
	697	12″	Cem.	1,555.00	
					1,635.45
Ashmont st., Belmont ave., northeasterly.....	250	12″	Clay		
	200	10″	Clay		351.57
Ashmun st., Adams st., southerly.....	176	10″	Clay		350.48
Athol st., Milford st. to Chicopee line.....	600	15″	Clay		
	310	12″	Clay		1,300.71
Atwater terrace, Springfield st., northerly.....	1,020	18″	Clay		1,469.45
Atwater road, Greene lane, westerly.....	322	20″	Clay		
	199	18″	Clay		....
Auburn st., Fulton st., easterly.....	397	12″	Clay		
	335	10″	Clay		655.06
Austin st., State st., northerly.....	363	10″	Clay		334.91
Autumn st., Summer to Worthington st.....	239	15″	Clay		715.29
Avon place, Maple st., easterly.....	695	24″	Clay		3,394.72
Banbury st., Stockman st., southerly.....	234	10″	Clay		188.81
Bancroft st., Garden brook to Chestnut st.....	1,361	3′-4″x5′-0″	Brick		
including Chestnut st., Bancroft to Montmorenci st.....	379	3′-2″x4′-9″	Brick		8,914.04
Montmorenci st., Chestnut st., easterly.....	43	3′-2″x4′-9″	Brick		
Bartlett st., Massasoit place, northerly.....	235	10″	Clay		332.30
Baxter ave., Woodbine ave., westerly.....	300	10″	Clay		325.61
Bay st., St. James ave. to Pleasant st.....	250	15″	Clay		
	245	12″	Clay	715.01	
	228	10″	Clay		
Florida to Pleasant st....	235	12″	Clay	321.02	
Florida to Sherman st....	304	20″	Clay		
	377	18″	Clay	1,092.89	
	812	15″	Clay	945.16	

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Sherman to Clarendon st.	151	8″	Cem.	$46.82	
Catharine to Clarendon st.	194	10″	Clay	200.66	
Bowles to Cambridge st.	1,037	2′-8″x4′-0″	Brick	8,290.44	
	360	2′-2″x3′-3″	Brick		
Cambridge to Sycamore st.	332	24″	Clay	1,348.03	
	360	20″	Clay		
					$12,960.03
Bay St., I. O., Main to Lawe st	439	10″	Clay		786.38
Beacon st., Eastern ave. to Colton st	250	10″	Clay	179.24	
Colton st., easterly	106	8″	Clay	75.08	
					254.32
Beaudry st., I. O., Main st., southerly	300	12″	Clay		745.95
	270	10″	Clay		
Beaumont st., Belmont ave., northerly	250	12″	Clay	403.87	
	431	10″	Clay		
Belmont ave. to Sumner ave	264	10″	Clay	183.91	
					587.78
Beaumont terrace, Beaumont st., easterly	271	10″	Clay		298.12
Beech st., Central st., northerly	427	10″	Cem.		124.37
Beechwood ave., Sumner to Spruceland ave	595	12″	Clay		19.09
Belgrade place, Walnut st., westerly	220	8″	Clay		33.88
	140	6″	Clay		
Belle ave., Chestnut st., easterly to Cass st	544	24″	Clay		2,951.54
	300	15″	Clay		
	280	12″	Clay		
	250	10″	Clay		
Bellevue ave., Belmont ave., easterly	300	18″	Clay	....	
	300	15″	Clay		
	194	12″	Clay		
Dickinson st., westerly	744	10″	Clay	30.67	
					30.67
Belmont ave., Fort Pleasant ave., easterly	90	10″	Clay	93.92	
Mill river to Woodside ter.	954	20″	Clay	2,713.44	
Woodside ter. to Litchfield	660	2′- 0″x3′-0″	Brick	11,978.81	
	445	1′-10″x2′-9″	Brick		
	595	1′- 8″x2′-6″	Brick		
	550	1′- 6″x2′-3″	Brick		
Litchfield st. to Kenwood Park	432	20″	Clay	1,682.59	
	493	18″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Kenwood Park to Sumner ave	301	15″	Clay		
	403	12″	Clay	$901.28	
	616	10″	Clay		
*Sumner ave. to Woodlawn st	830	3′- 4″x5′-0″	Brick		
	819	3′- 0″x4′-6″	Brick	8,216.97	
	245	3′- 0″x4′-6″	Br.C.		
	416	2′-10″x4′-3″	Br.C.	3,470.41	
*Woodlawn to White st	1,637	2′-10″x4′-3″	Con.	7,237.33	
					$36,294.75
Belmont place, Belmont ave., southerly	216	10″	Clay		192.92
Belvidere st., Belmont ave. to Blake st	300	20″	Clay		
	362	18″	Clay		2,322.42
	318	15″	Clay		
	330	12″	Clay		
Benton place, Benton st., easterly	300	10″	Clay		
	325	8″	Clay		360.43
Benton st., State st., southerly	301	12″	Clay		
	300	10″	Clay	513.96	
	247	8″	Clay		
	320	8″	Clay	419.68	
					933.64
Berendo st., Grenada terrace to Alderman st	345	12″	Clay		375.60
Berkeley st., Princeton to Monmouth st	483	12″	Clay		582.51
Berkshire st., I. O.					
Oak to Myrtle st	701	12″	Cem.	946.21	
Oak st., easterly	387	12″	Clay	389.89	
Chestnut to Myrtle st	577	12″	Clay	545.74	
Chestnut st., westerly	278	12″	Clay		
	180	10″	Clay	542.99	
					2,424.83
Besse place, Main st., westerly	290	10″	Clay		....
Bethel st., Brunswick st., easterly	300	10″	Clay		228.90
Biltmore st., Dickinson st. to Trafton road	350	15″	Clay		
	349	12″	Clay		866.51
	351	10″	Clay		
Birnie ave., Wason ave., northerly and easterly to North Main st	896	24″	Clay		
	174	15″	Clay	1,534.02	
Wason ave., southerly	350	18″	Clay		
	417	15″	Clay	1,024.75	
Worcester st. extension, northerly to Grace st	162	15″	Cem.	72.28	

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Worcester st. extension, southerly to Walter st..	144	12″	Cem.	$36.15	
Douglas st., northerly....	292	24″	Clay		
	303	20″	Clay	1,265.17	
	304	15″	Clay		
	144	10″	Clay		
Douglas st. to near	373	1′-10″x2′-9″	Brick	1,319.73	
Hooker st.....	312	20″	Clay	768.74	
	316	18″	Clay		
	342	15″	Clay	576.67	
Arch to Hooker st.....	1,048	24″	Clay	37.11	
					$6,634.62
Birnie ave. extension, Arch st., southerly.....	445	10″	Clay		....
Blaine st., White to Brunswick st.....	373	24″	Clay		850.08
Blake hill, Fort Pleasant ave., easterly.....	244	10″	Clay		236.22
Bliss st., from Main to N. Y., N. H. & H. R. R...	1,284	12″	Cem.		1,285.90
Bloomfield st., Oakland to Earl st.....	500	18″	Clay	1,692.55	
	527	15″	Clay		
Earl st. to Pasadena ave.	550	12″	Clay	917.72	
	273	10″	Clay		
					2,610.27
Bond place, including 41 feet in Bridge st. (for cost see Symonds ave.).	203	12″	Cem.		....
Bond st., Garden brook	341	2′-0″x3′-0″	Brick	1,580.25	
sewer to Chestnut st...	959	24″	Clay	2,285.89	
					3,866.14
Bowdoin st., Worthington	660	15″	Cem.	762.11	
st., southerly.....	285	12″	Clay	371.52	
Worthington to Ingersoll grove.....	819	12″	Cem.	758.64	
					1,892.27
Bowles st., Bay to McKnight.....	695	15″	Cem.	1,083.39	
	64	15″	Clay	136.50	
Pease st., northerly.....	275	8″	Clay	62.76	
					1,282.65
***Bowles park,** Ardmore st., easterly.....	342	10″	Clay		241.39
Boylston st., Cypress to	610	18″	Cem.		
Clinton.....	346	15″	Cem.		1,656.24
Bradford st., North Main	352	15″	Cem.		
to Fulton st.....	758	12″	Cem.		1,301.99

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Bridge st., Main st. to	798	12″	Cem.	$762.38	
Conn. river	275	15″	Clay	429.14	
Main to Chestnut st.	1,158	2′-0″x3′-0″	Brick	5,414.20	
					$6,605.72
Brightwood ave., Plainfield st., westerly	221	15″	Clay		237.94
Bristol st., Wilbraham road	299	15″	Clay	599.47	
to Marlborough st.	560	12″	Clay		
Marlborough st., southerly	552	10″	Clay	293.99	
					893.46
Broad st., Hanover to Main st.	970	15″	Cem.		1,401.19
Brookline ave., North st.,	328	12″	Clay		29.57
easterly	171	10″	Clay		
Brooklyn ave., Sumner ave., southerly	423	12″	Clay		329.56
Brown st., Yale to Bay st.	483	10″	Cem.		357.65
	21	8″	Cem.		
Brunswick st., Brooklyn ave., southerly	307	10″	Clay	190.48	
Blaine to Bethel st	251	18″	Clay		
	252	15″	Clay	1,031.89	
	252	12″	Clay		
Bethel st., northerly	225	10″	Clay	237.07	
					1,459.44
Bryant st., Belmont to Sumner ave.	274	15″	Clay		
	301	12″	Clay		763.96
	300	10′	Clay		
Buckingham place, Bay st., westerly	235	10″	Clay		168.97
Buckingham st., Bay to					
Clarendon st.	651	12″	Clay	597.24	
Bay st., southerly	35	12″	Cem.		
State to Bay st.	305	18″	Clay		
	345	15″	Clay	1,158.40	
	675	12″	Clay		
					1,755.64
Burlington st., Belmont ave., northerly	137	10″	Clay		72.61
Burr st., Andrew st., easterly	570	12″	Clay		499.91
Burton st., White st. to					
Kimberly ave.	527	12″	Clay		750.94
	180	10″	Clay		
Butler st., Chestnut to					
Cass st.	1,268	20″	Clay	2,119.54	
Cass st., easterly	321	20″	Clay	520.71	
					2,640.25

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Calhoun st., North Main to North st.	853	12″	Clay	$701.77	
North st., easterly	300	8″	Clay	262.38	
					$964.15
Cambridge st., Bay st., southerly	276	20″	Clay		
	331	18″	Clay	1,204.43	
	266	15″	Clay		
	302	12″	Clay		
	278	10″	Clay	411.63	
Burr st., northerly	162	10″	Clay	142.44	
					1,758.50
Card-factory pond (see private ways).					
Carew st., Main st. to Garden brook (cost shown under Clinton st.)	*250	4′-6″x6′-0″	Brick	....	
	32	5′-0″ cir.	Brick	....	
	1,456	4′-3″ cir.	Brick		
Garden brook to Prospect st.	1,257	3′-0″ cir.	Brick	22,106.89	
	791	2′-8″ cir.	Brick		
Massasoit st., easterly	580	18″	Cem.	671.51	
	200	12″	Cem.	153.28	
Prospect to Armory st.	989	2′-8″ cir.	Con.	8,638.14	
	1,365	2′-6″x3′-9″	Con.		
Armory to Liberty st.	1,686	2′-2″x3′-3″ egg	Con.	5,955.05	
Liberty st., easterly	502	15″	Clay		
	499	12″	Clay	1,169.66	
	434	10″	Clay		
					38,694.53
Carlisle st., Wilbraham road, southerly	400	10″	Clay		355.69
	246	8″	Clay		
Caseland st., Springfield st. to Armory st.	446	15″	Clay		
	462	12″	Clay		1,921.54
	215	10″	Clay		
Cass st., Liberty to Franklin st.	500	12″	Clay	575.28	
	163	10″	Clay		
Linden st., southerly	596	15″	Clay	892.07	
Linden st., northerly	224	12″	Clay		
					1,467.35
Castle ave., Sumner ave., southerly	526	12″	Clay		675.22
Catharine st., Dartmouth to McKnight st.	833	2′-0″x3′-0″	Brick	4,500.61	
State to McKnight st.	348	15″	Clay		
	438	12″	Clay	1,348.95	
	333	10″	Clay		
					5,849.56

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Cedar st., Pine to Walnut st.	180	3′-10″x5′-9″	Brick	$889.35	
	1,074	3′- 8″x5′-6″	Brick	6,206.73	
Pine st., westerly	378	12″	Cem.	324.09	
					$7,420.17
Cedar st., I. O., Main to river	433	2′-0″x3′-0″	Brick	2,001.44	
Main to Centre st.	274	12″	Clay	263.92	
					2,265.36
Cemetery brook (see private ways).					
Center street, Oak Grove ave., northerly	1,008	10″	Clay		525.25
Centre st., I. O., Oak to Pine st.	463	12″	Cem.	546.58	
Pine to Cedar st.	349	12″	Clay	668.19	
	300	10″	Clay		
Cedar st., easterly	519	10″	Clay	474.04	
					1,688.81
Central st., Main st., easterly	99	15″	Cem.	147.60	
	546	12″	Cem.	385.49	
Main to Maple st.	63	2′-0″x3′-0″	Brick	119.57	
	463	2′-0″x3′-0″	Con.	2,332.17	
	*41	1′-10″x2′-9″	Con.	452.04	
	460	24″	Clay	2,665.22	
	434	20″	Clay		
near Maple st. to Sterns terrace	549	18″	Clay	883.33	
	105	12″	Clay	199.95	
Sterns terrace to Cedar st.	334	18″	Cem.	102.50	
Pine st., westerly	500	12″	Cem.	568.42	
Pine to Spruce st.	339	12″	Cem.	376.00	
	335	12″	Clay	514.05	
	310	10″	Clay		
Spruce to Hancock st.	861	20″	Clay	1,401.59	
Hancock to Mill st.	597	2′-0″x3′-0″	Brick	2,135.31	
Mill st. to Mill river	40	24″	Clay	136.83	
					12,420.07
Chapel st., Eastern ave., easterly	400	10″	Clay		314.19
Chapin terrace, Chestnut st., easterly	327	15″	Clay	1,124.82	
	279	12″	Clay		
*Marvin st., easterly	430	2′-4″x3′-6″	Con.	2,644.15	
					3,768.97
Charles st., Liberty to Franklin st.	27	12″	Clay	647.16	
	620	12″	Cem.		
Liberty st., southerly	29	12″	Clay	12.94	
					660.10

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Charter ave., Walnut st., easterly	527	12″	Clay		$564.24
Chase ave., Fort Pleasant ave., easterly	238	12″	Clay		24.49
	333	10″	Clay		
Cherrelyn ave., Phœnix st., southerly	300	15″	Clay	$410.62	
	651	12″	Clay	574.73	
Cherry st., Mill river to Central st	398	18″	Clay		985.35
	434	15″	Clay		
	251	12″	Clay		1,476.91
	295	10″	Clay		
Cherryvale ave., Longhill st. to Florentine gardens	401	10″	Clay		15.74
Chester st., Mill st., northerly	195	8″	Clay		
	459	12″	Clay	549.83	
	161	10″	Clay		
	112	8″	Clay	....	
Chestnut st., Edwards st., southerly	575	12″	Cem.	595.03	549.83
Mattoon st., southerly	288	15″	Cem.	319.69	
Pearl to Mattoon st	313	1′-4″x2′-0″	Brick	445.40	
Pearl to Bridge st	143	1′-8″x2′-6″	Brick	599.51	
Bridge to Worthington st.	480	2′-0″ cir.	Brick	....	
Worthington to Bridge st.	353	24″	Clay	1,175.53	
Worthington to Taylor st.	60	18″	Cem.	302.35	
	244	12″	Cem.		
Lyman to Liberty st	134	18″	Cem.		
	72	12″	Cem.	992.55	
	258	12″	Clay		
Ferry st., northerly	150	12″	Clay	767.51	
Franklin st., southerly	488	12″	Cem.	378.49	
Franklin to Greenwood st.	224	24″	Clay	1,248.43	
Greenwood st., northerly	242	12″	Clay	1,038.03	
Essex to Everett st	374	15″	Cem.	586.72	
Carew st., southerly	126	8″	Clay	100.68	
Carew to Prospect st	424	24″	Clay	1,618.64	
	537	20″	Clay		
Prospect st., northerly	220	12″	Cem.	251.23	
Bancroft st., southerly	172	12″	Cem.	123.00	
	108	12″	Clay	190.55	
	19	10″	Clay		
Bancroft to Montmorenci st	391	15″	Cem.	535.24	
Bancroft to Montmorenci st. (see Bancroft st.)	....	3′-2″x4′-9″	Brick	....	
Montmorenci to Waverly st	185	12″	Cem.	1,100.74	
	717	12″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Douglas st., southerly....	450	10″	Clay	$432.05	
Douglas to Springfield (see Springfield st.)....	....	3′-6″ cir.	Brick	....	
Merwin st., southerly....	178	10″	Clay	30.88	
Eagle st., northerly.....	87	15″	Clay	....	
Eagle st., southerly.....	171	10″	Clay	37.82	
Noble to Jenks st.....	341	12″	Clay	653.42	
					$13,523.49
Chestnut st., I. O., Worcester to Hampden st.....	342	15″	Cem.	340 25	
Hampden to Berkshire st.	30	15″	Clay	55.26	
	307	15″	Clay	342.65	
					738.16
Chicopee road, land of B. & A. R. R., easterly to St. James ave.....	*1,170	2′-10″x4′-3″	Con.	6,574.76	
Carew st., southerly.....	656	10″	Clay	1,033.72	
Carew st., northerly....	451	10″	Clay	391.91	
					8,000.39
Chilson st., Sumner ave., southerly.....	304	10″	Clay		252.28
Church st., Garden brook to North st.....	636	18″	Clay		1,731.13
Churchill st., Sumner ave.	580	12″	Clay	151.22	
to Garfield st.....	55	8″	Clay	6.89	
					158.11
Clantoy st., Phœnix to Dupont st.....	398	15″	Clay		
	517	12″	Clay		1,221.21
	366	10″	Clay		
Claremont st., Orange st., southerly.....	492	10″	Clay		264.58
Clarendon st., Worthington st., westerly.....	205	10″	Clay	225.80	
Worthington to St. James ave.....	336	18″	Cem.		
St. James ave. to Sherman st.....	280	15″	Clay	1,859.31	
	605	12″	Clay		
Clark st., Hancock st.,					2,085.11
westerly.....	520	10″	Clay		531.80
Clayton st., Plainfield st.,	299	18″	Clay	583.76	
westerly.....	322	15″	Clay	497.83	
	315	12″	Clay	688.43	
	320	10″	Clay		
					1,770.02
Clermont st., I. O., Healey ave., easterly.....	150	10″	Clay		123.28

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Cleveland st., Armory to Liberty st.	274	18″	Clay		
	250	15″	Clay		$790.48
	276	12″	Clay		
	284	10″	Clay		
Clifford st., Bay st., northerly	250	12″	Clay		
	119	10″	Clay		357.34
Clifton ave., Central st., southerly	398	8″	Clay		134.54
Cliftwood st., Sumner ave., southerly	464	10″	Clay		65.99
Clinton st., Fulton to Boylston st.	150	10″	Clay	$11.07	
Boylston st., easterly	410	12″	Cem.	441.52	
submerged outlet	176	24″	W'd	2,207.90	
	24	24″	C-ir.		
Conn. river to Fulton st.	593	4′-10″x7′-3″			
Fulton st., Clinton to Sargeant st.					
Sargeant st., Fulton to Main st.			Brick	26,137.87	
Carew st., Main st. to Garden brook					
(For lengths and sizes see individual streets.)					
					28,798.36
Clyde st., Plainfield st., westerly	350	18″	Clay		
	350	15″	Clay		1,587.01
	271	12″	Clay		
College st., State st. to Shattuck ave.	839	12″	Clay	662.25	
*Shattuck ave. to Acorn st.	311	12″	Clay	457.62	
	900	10″	Clay		
State st. to Wilbraham road	34	12″	Clay	387.72	
	443	10″	Clay		
					1,507.59
Collins st., Eastern ave. to Logan st.	300	12″	Clay		457.04
	269	10″	Clay		
Colonial ave., State st., southerly	326	12″	Clay		69.22
	348	10″	Clay		
Colton st., Wilbraham road to Beacon st.	448	18″	Clay		
	569	15″	Clay		2,048.71
	658	12″	Clay		
Columbia terrace, Liberty st., north and east	498	10″	Clay		
Commonwealth ave., Belmont to Washington ave.	441	24″	Clay		
	500	20″	Clay	2,878.00	
	549	18″	Clay		

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Washington ave. to Fairview st.	691	15″	Clay	$720.72	$3,598.72
Concord terrace, Wilbraham road, northerly	253	10″	Clay		353.06
Congress st., Garden brook to Main st.	53	12″	Cem.	75.46	
	319	12″	Clay	705.44	
Garden brook to Chestnut st.	133	20″	Clay	1,463.00	
	198	18″	Clay		
	369	15″	Clay		
	288	12″	Clay		
	119	15″	Cem.	277.22	
	76	10″.	Cem.		2,521.12
Connecticut ave., Farnsworth st., southerly	221	10″	Clay		177.05
Continental st., Sumner ave., southerly	215	12″	Clay		102.05
	266	10″	Clay		
Converse st., Sumner ave. to Vermont st.	506	18″	Clay		443.87
Cook's ave., Worthington st. to N. Church ave.	117	15″	Cem.		672.96
N. Church ave., southerly (includes cost of N. Church ave.)	69	10″	Cem.		
Coomes st., Leete st., southerly	421	12″	Clay		2,006.81
Cornell st., Dartmouth terrace to Wellesley st.	185	15″	Clay	543.05	
	374	12″	Clay		
Wellesley st., easterly	186	10″	Clay	208.20	
Princeton st., westerly	52	10″	Cem.	47.30	
	86	8″	Clay	88.04	
Princeton st., easterly	181	10″	Cem.	132.12	
	120	10″	Clay	180.93	1,199.64
Cortland st., State st., northerly	164	15″	Clay		723.18
	621	12″	Clay		
Cottage ave. (see Melrose st.)					
Court st., Court Square ave., westerly	461	12″	Cem.	621.55	
Main st. to Court Sq. ave.	200	12″	Cem.	349.86	971.41
Crane st., Franklin st., northerly	438	10″	Clay		623.47

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Crosby st., Walnut st., westerly	321	10″	Clay		$231.38
Cross st., Main to Willow st.	388	18″	Clay	$951.12	
Willow st., easterly	363	12″	Cem.	352.25	
					1,303.37
Crossett lane, Willow st., westerly	169	10″	Clay		259.82
Crown st., White st., easterly	341	15″	Clay		932.22
	135	12″	Clay		
	91	10″	Clay		
Crystal ave., Belmont ave., easterly	251	15″	Clay		
	250	12″	Clay	24.07	
	298	10″	Clay		
*Dickinson st., westerly	362	15″	Clay	650.64	
	372	12″	Clay		
					674.71
Cumberland st., Chestnut st., westerly	167	10″	Clay	125.29	
North Main to North st.	205	15″	Clay	300.96	
	238	12″	Clay	284.06	
					710.31
Cypress ave., Cypress st., northerly	360	12″	Cem.	484.08	
	40	12″	Clay	23.78	
					507.86
Cypress st., Conn. river to Garden brook in Ferry st.	1,081	3′-4″x5′-0″	Brick	10,048.85	
†Connecticut river to Fulton st.	385	4′-10″x7′-3″	Con.	3,919.09	
†Fulton to Main st.	691	4′- 2″x6′-3″	Con.	6,470.80	
					20,438.74
Dale st., northerly from sewer 60 ft. south of Hubbard ave.	203	10″	Clay	184.27	
Winthrop st., southerly	46	8″	Clay	13.08	
Winthrop st., northerly	123	10″	Clay	259.62	
William st., northerly	143	10″	Clay	288.91	
					745.88
Dartmouth st., St. James ave. to Yale st.	973	3′-0″x4′-6″	Brick		8,247.06
Yale to Bowles st.	295	2′-6″x3′-9″	Brick		
Dartmouth terrace, Worthington to Cornell st.	499	20″	Clay		2,213.06
	357	18″	Clay		
	177	15″	Clay		

*Surface drainage only. † Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Davis court, Bridge st. to Harrison ave.	450	12″	Clay		$500.67
Daviston ave., Allen to West Alvord st.	403	10″	Clay		
West Alvord to East Alvord st.	400	10″	Clay		1,258.06
East Alvord st., southeasterly	299	10″	Clay		
Sumner ave., northerly	267	18″	Clay		
Dawes st., Bay st., southerly	299	15″	Clay		
	310	12″	Clay		207.36
	518	10″	Clay		
Dawson ave., White street, westerly	350	10″	Clay		118.35
Daytona st., Belmont to Sumner ave.	524	12″	Clay		500.44
Desmond ave., Fisk ave., westerly	510	12″	Clay		
Plainfield st., easterly	403	12″	Clay		642.06
Denton circle, Liberty st., easterly	406	12″	Clay		473.00
Dexter st., Knox to Pine st.	300	15″	Clay	$686.15	
	282	12″	Clay		
	202	10″	Clay	219.08	
					905.23
Dickinson st., Mill st. to Sumner ave.	35	4′-6″ cir.	Brick		
	60	2′-1″x5′-0″	Con.		
	251	5′-0″ cir.	Brick		
	679	4′-0″ cir.	Brick	44,606.56	
	*460	4′-10″x7′-3″	Brick		
	*869	4′-8″x7′-0″	Brick		
	*1,040	4′-4″x6′-6″	Brick		
	*996	4′-2″x6′-3″	Brick		
Sumner ave., southerly	1,379	2′-6″x3′-9″	Brick		
	324	2′-4″x3′-6″	Brick		
	434	2′-0″x3′-0″	Brick	8,806.81	
	312	1′-10″x2′-9″	Brick		
					53,413.37
Division st., Plainfield st., westerly	300	18″	Clay		
	250	15″	Clay		810.21
Donald st., Birnie ave., easterly	315	10″	Clay		406.60
Dorchester st., St. James ave. to Amherst st.	364	12″	Clay		417.70
	238	10″	Clay		
Dorne st., Smith st., northerly	219	12″	Clay		182.12

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Douglas st., B. & M. R. R. to North Main st. (see Rowland ave.)	....	....	....		....
Dover st., North Main to Chestnut st	424	4′-6″ cir.	Brick		$4,805.19
	442	4′-0″ cir.	Brick		
Dresden st., State st., southerly	359	12″	Clay		25.14
	321	10″	Clay		
Dunmoreland st., Wilbraham road, southerly	301	15″	Clay		
	302	12″	Clay	$1,113.42	
	350	10″	Clay		
*Westford circle, northerly	584	10″	Clay	681.23	
*Westford circle to King st	546	10″	Clay	510.37	
					2,305.02
***Duryea st.**, Page boulevard to Eureka st	1,068	10″	Clay		1,029.27
Dwight road, White to Leslie st	346	18″	Clay		2,075.78
	348	15″	Clay		
Dwight st., Sanford to State st	258	2′-8″x4′-0″	Brick	1,571.86	
Sanford st. to Harrison ave.	253	20″	Clay		
	229	18″	Clay	1,441.27	
	199	15″	Clay		
Harrison ave., northerly	129	12″	Clay	319.96	
Hillman st., southerly	226	10″	Clay	289.25	
Hillman st., northerly	103	10″	Clay	420.28	
Worthington st., southerly	269	12″	Clay	433.91	
Worthington st., northerly	342	12″	Cem.	374.73	
					4,851.26
Dwight st. extension, Saratoga st., southerly	249	12″	Clay		286.25
Dwight st. underpass, Liberty st., southerly	390	12″	Clay		....
Dymon st., Walnut st., easterly	415	12″	Cem.		385.92
Eagle st., North Main to Chestnut st	643	15″	Clay		....
Earl st., Bloomfield st., northerly	190	10″	Clay		157.32
East Alvord st., West Alvord st. to Daviston avenue	495	18″	Clay		1,031.68
	598	12″	Clay		
East Court st., Dwight st., westerly	206	12″	Clay		303.10
	62	10″	Clay		

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
East Hooker st., North Main to North st.....	444	10″	Cem.	$39.04	
	255	10″	Clay	....	
					$39.04
Eastern ave., Watershops pond to Manhattan st..	1,164	24″	Clay	2,164.43	
Manhattan to Alden st....	338	20″	Clay	636.21	
Alden to Collins st.....	231	12″	Clay	313.99	
Greene st., southerly.....	125	8″	Clay	69.58	
Greene to Ladd st.....	38	15″	Clay	67.21	
Olive st., southerly.....	169	8″	Clay	167.87	
Lebanon to Olive st.....	159	12″	Cem.	190.96	
Lebanon to King st.....	194	12″	Cem.	351.89	
	55	12″	Clay	95.43	
King to Chapel st.....	152	10″	Cem.	166.50	
	101	10″	Clay	149.70	
Pendleton ave., northerly.	312	12″	Cem.	256.78	
Tyler st., northerly.....	286	12″	Cem.	181.30	
Quincy st., northerly.....	118	10″	Cem.	131.15	
Monroe st., southerly....	28	12″	Cem.	45.09	
	210	8″	Clay	179.00	
Monroe st., northerly....	29	12″	Cem.	51.50	
	123	8″	Clay	84.98	
Wilbraham rd., southerly	296	12″	Clay	1,250.01	
					6,553.58
Eddywood ave., Sumner ave., northerly.....	328	10″	Clay		436.66
***Edendale st.**, Page blvd. to Bowles park.....	1,471	10″	Clay		1,299.39
Edgemont st., State st., northerly.....	499	10″	Clay		554.05
	296	8″	Clay		
***Edgewood st.**, Acorn to Bay st.....	1,001	8″	Clay		443.73
Edwards st., Chestnut st., easterly.....	551	12″	Cem.		404.88
Eldredge st., Belmont ave., southerly.....	266	10″	Clay		245.15
Eleanor road, White st., southerly.....	277	15″	Clay		854.78
	430	12″	Clay		
Elliot st., Salem st., southerly.....	610	15″	Cem.	730.48	
	243	12″	Cem.	341.99	
					1,072.47
Elm st., submerged outlet..	191	24″	Wood	1,700.79	
	26	24″	C. Iron	359.80	
Conn. river to Water st...	385	3′-9″ cir.	Brick	10,759.40	
Water to Main st.....	996	3′-8″x5′-6″	Brick		
					12,819.99

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Elmwood st., Main to Hanover st.	300	18″	Clay		
	249	15″	Clay		$1,058.02
	299	12″	Clay		
Emery st., Boylston st., east and west.	542	12″	Cem.		653.92
Essex street, Garden brook, westerly.	418	15″	Cem.	$355.00	
Garden brook to Chestnut st.	1,115	2′-2″x3′-3″	Brick	7,140.62	
	204	18″	Cem.	355.33	
					7,850.95
Essex st., I. O., Oak to Myrtle st.	254	12″	Clay		
Oak st., easterly.	426	10″	Clay	662.25	
	183	10″	Clay	248.23	
					910.48
Eton st., Sumner ave. to Morningside park.	502	12″	Clay		698.40
	272	10″	Clay		
Euclid ave., Belmont ave. to Dickinson st.	389	12″	Clay		
	741	10″	Clay	1,199.32	
	77	8″	Clay	50.67	
*Dickinson st., westerly.	350	15″	Clay		
	350	12″	Clay	773.10	
Dickinson st., easterly.	275	10″	Clay	332.10	
Orange st., southerly.	257	18″	Clay		
	172	10″	Clay	871.20	
Orange st., northerly.	30	12″	Clay	23.07	
					3,249.46
Everett st., Chestnut st. to brook.	323	15″	Cem.	320.58	
brook to Cass st.	926	15″	Clay	821.43	
Cass st., easterly.	313	15″	Clay	617.45	
					1,759.46
Fairbanks place, Worthington st., northerly.	249	10″	Clay		251.54
Fairfield st., Litchfield to Garfield st.	376	12″	Clay	....	
	556	10″	Clay	351.64	
					351.64
Fairmount st., Commonwealth ave. to Lawndale st.	350	10″	Clay		173.17
Falmouth st., I. O., Parker st., westerly.	204	18″	Clay		275.44
Farnsworth st., Hamburg st. to Connecticut ave.	530	20″	Clay	1,653.14	
	279	18″	Clay		
	341	12″	Clay	1,011.82	
	264	10″	Clay		
					2,664.96

*Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Federal st., Worthington to Pearl st.	567	12″	Cem.	$740.92	
Summer st., southerly	274	10″	Clay	172.00	
					$912.92
Ferry st., Main to Garden brook (see Cypress st.).	....	....	....	....	
Garden brook to Chestnut st.	1,168	2′-4″x3′-6″	Brick	5,417.12	
Main st., easterly	*394	4′-2″x6′-3″	Con.	11,067.29	
	1,004	4′-9″ cir.	Con.		
					16,484.41
Firglade ave., Sumner ave. to Spruceland st.	350	10″	Clay	84.44	
	203	8″	Clay		
Spruceland to Pineywoods avenue	447	10″	Clay	....	
	67	8″	Clay	....	
Pineywoods ave. to Washington boulevard	242	12″	Clay	431.88	
	176	10″	Clay		
					516.32
Fisk ave., Rowland to Worcester ave.	272	24″	Clay	1,073.11	
	275	20″	Clay		
	298	10″	Clay		
Wason ave., southerly	299	24″	Clay	1,216.81	
	294	20″	Clay		
	248	12″	Clay		
					2,289.92
Florence st., Pine st., easterly	824	15″	Cem.	2,227.38	
	651	12″	Cem.		
Hancock st., easterly	253	10″	Cem.	323.93	
	26	10″	Clay	31.11	
					2,582.42
Florentine gardens, Pineywoods ave., northerly	421	10″	Clay		81.89
Florida st., Worthington to Ingersoll Grove st.	555	15″	Clay	978.89	
	279	12″	Clay		
Worthington to St. James ave.	935	2′-2″x3′-3″	Brick	4,499.10	
St. James ave. to Bay st.	599	24″	Clay	1,832.21	
					7,310.20
Forest st., Belmont to Forest Park ave.	419	12″	Clay		806.38
	255	10″	Clay		
Forest Park ave., Fort Pleasant ave. to Garfield st.	1,081	24″	Clay	....	
	325	20″	Clay	1,217.48	
	562	18″	Clay		
Sumner ave., northerly	567	12″	Clay	177.07	
Sumner ave., southerly	66	10″	Clay	....	
	438	10″	Clay	379.92	

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Pineywoods ave., northerly	380	10″	Clay	$60.18	
					$1,834.65
Fort st., Main to Water st.	633	12″	Cem.		633.43
Fort Pleasant ave., Mill	888	2′-4″x3′-6″	Brick	13,339.80	
river to Sumner ave.	1,825	2′-0″x3′-0″	Brick		
Mill st., southerly	428	12″	Clay	293.42	
					13,633.22
Foster st., Knox st., easterly	511	12″	Clay	517.25	
	224	12″	Cem.	34.68	
					551.93
Fountain place, Belmont ave., southerly	299	12″	Clay		310.25
Franklin st., Garden brook sewer to Main st.	434	18″	Cem.	593.13	
Garden brook sewer to	919	2′-2″x3′-3″	Con.	4,106.84	
Chestnut st.	295	20″	Clay	804.75	
Chestnut to Charles st.	273	15″	Clay	384.87	
Charles to Cass st	827	12″	Clay	1,168.25	
	276	10″	Clay		
Cass to Murray Hill ave.	621	12″	Clay	1,051.76	
	330	10″	Clay		
Nursery st., westerly	207	15″	Clay	....	
Nursery to Genesee st.	107	15″	Clay	199.93	
	557	15″	Cem.	....	
	27	12″	Clay	57.66	
					8,367.19
Freeman terrace, Stockman to Phœnix st.	252	18″	Clay		870.04
	270	15″	Clay		
Fremont st., Main to Water st.	780	1′-6″x1′-7″	Brick	702.45	
Main st., westerly	656	12″	Cem.	692.92	
	30	12″	Clay	65.21	
					1,460.58
Fresno st., Page boulevard, easterly	935	10″	Clay		4,205.84
Fulton st., Cypress to Clinton st.	944	12″	Cem.	924.38	
*Clinton to Sargeant st. (cost shown under Clinton st.)	1,080	4′-8″x7′-0″	Brick	....	
	42	4′-10″x7′-3″	Brick		
Sargeant to John st.	555	15″	Cem.	1,219.02	
John st., northerly	314	12″	Clay	674.48	
	408	10″	Clay		
					2,817 88
Garden brook sewer (see private ways).					

*Elliptical.

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SEWER SYSTEM.—*Continued*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Gardner ave., Gardner st., northerly	151	8″	Clay		$73.11
Gardner st., Hanover to Water st	655	2′-0″x3′-0″	Brick	$1,995.23	
Water to Main st.	226	12″	Clay	504.81	
	199	10″	Clay		
					2,500.04
Garfield st., Forest Park ave., easterly	556	15″	Clay	1,073.96	
	514	12″	Clay		
Belmont ave., westerly	541	10″	Clay	450.79	
					1,524.75
Genesee st., Franklin st., southerly	299	10″	Clay	281.49	
Armory to Liberty st.	350	12″	Clay	645.23	
	351	10″	Clay		
					926.72
George st., Dexter st., southerly	409	10″	Clay		381.73
Girard ave., Bay to McKnight st	944	12″	Clay		863.45
Glendell terrace, Euclid ave., easterly north side	101	12″	Clay	569.36	
	175	10″	Clay		
Euclid ave., easterly—south side	268	10″	Clay	496.36	
					1,065.72
Goodrich st., Liberty st., northerly	240	10″	Clay		460.87
Gordon st., Pasadena ave. to White st	618	15″	Clay		627.46
Governor st., Armory st. to Penacook ave	424	20″	Clay		
	401	18″	Clay		
	402	15″	Clay		1,276.19
	224	12″	Clay		
Grace st., Birnie ave., easterly	274	15″	Cem.		51.56
Grand st., Revere st., easterly	250	15″	Clay		
	252	12″	Clay	....	
Revere st., westerly	151	10″	Clay	30.85	
					30.85
Grant st., Magazine to Armory st	588	12″	Cem.		477.26
Granville st., Eastern ave. to Logan st	248	12″	Clay		644.77
	247	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Gray's ave., Cypress st., northerly	495	12″	Cem.		$460.92
Greenacre sq. (north), Foster st., easterly	201	10″	Clay		173.46
Greenacre sq. (south), Foster st., easterly	346	10″	Clay		316.93
Greenbrier st., Larkspur to Trillium st.	300	10″	Clay		322.19
Blaine to Trillium st.	270	10″	Clay		
Greene st., Hancock to Eastern ave.	610	18″	Cem.		1,897.68
	793	15″	Cem.		
Greene lane, Rimmon ave., westerly and northerly.	744	12″	Clay	....	
	143	10″	Clay	....	
					....
Greenleaf st., Sumner ave. to Garfield st.	527	12″	Clay		178.85
Greenwich st., Birnie ave., easterly	300	12″	Clay		467.79
	300	10″	Clay		
Greenwood st., Garden brook to Main st.	250	15″	Clay	$645.46	
	136	12″	Clay		
Garden brook, easterly...	538	15″	Clay		
	448	12″	Clay	1,639.27	
	117	10″	Clay		
					2,284.73
Grenada terrace, Dickinson to Ventura st.	220	18″	Clay	828.48	
	310	15″	Clay		
Ventura st., easterly	309	12″	Clay	445.27	
	216	10″	Clay		
					1,273.75
Grosvenor st., North to Chestnut st.	131	18″	Cem.		721.17
	648	15″	Cem.		
Grove st., North Main st., easterly	409	10″	Clay		442.65
North st., westerly	270	10″	Clay		
Groveland ave., Dickinson st. to town line	533	12″	Clay		525.19
	117	10″	Clay		
Grover st., Armory to Liberty st.	300	18″	Clay		
	303	15″	Clay		910.58
	298	12″	Clay		
	432	10″	Clay		
Hall st., Belmont ave. to Dickinson st.	500	12″	Clay	904.55	
	474	10″	Clay		
*Dickinson st., southerly.	774	12″	Clay	698.29	
					1,602.84
Hamburg st., Springfield st., easterly	367	20″	Clay		1,067.20
	235	10″	Clay		

* Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Hampden st., Water to Main st.	569	15″	Cem.		$762.57
Hampden st., I. O., Chestnut st., easterly	285	12″	Cem.	$187.28	
	174	12″	Clay	299.12	
Holly st., easterly	150	10″	Clay	165.26	
Pine st., westerly	200	12″	Clay	370.33	
	199	10″	Clay		
					1,021.99
Hampshire st., I. O., Oak st., westerly	300	12″	Clay	633.59	
	398	10″	Clay		
Oak st., easterly	250	12″	Cem.	206.20	
Pine st., westerly	469	10″	Clay	539.21	
Myrtle st., westerly	300	10″	Clay	295.05	
					1,674.05
Hancock st., Mill river to Central st.	920	12″	Clay	995.01	
Central to Walnut st.	218	18″	Cem.	1,874.54	
	1,343	15″	Cem.		
Walnut to Alden st.	122	12″	Cem.	88.00	
Lebanon to Alden st.	827	2′-0″x3′-0″	Brick	5,009.61	
Walnut (through Lebanon) to Quincy st.	1,852	3′-6″x5′-3″	Brick	21,668.02	
Quincy to State st.	913	3′-4″x5′-0″	Brick		
					29,635.18
Hanover st., York to Gardner st.	830	2′-2″x3′-3″	Brick		2,650.26
Harriet st., North Main to North st.	250	15″	Clay	377.17	
	207	12″	Clay		
North st., easterly	330	10″	Clay	200.13	
					577.30
Harrison ave., Main to Chestnut st.	600	15″	Cem.	874.11	
	250	8″	Clay	203.61	
					1,077.72
Harvard st., Yale st. to St. James ave.	316	18″	Clay	998.99	
	300	15″	Clay		
	291	12″	Cem.	266.84	
St. James ave. to Cornell st.	736	12″	Cem.	122.29	
					1,388.12
Hastings st., Kendall ave., easterly	250	15″	Clay		
	250	12″	Clay	713.44	
	201	10″	Clay		
Freeman terrace, easterly	250	12″	Clay	607.63	
	254	10″	Clay		
					1,321.07

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Hawley st., State st., southerly	110	12″	Cem.		
Monroe st., northerly	71	12″	Cem.		$300.34
	330	10″	Clay		
Hawthorne st., Hancock st., westerly	441	12″	Cem.		480.95
Hayden ave., State st., northerly	335	12″	Clay		
	557	10″	Clay		308.14
Healey ave., I. O., Worcester to South st	989	15″	Clay	$1,876.01	
South st., southerly	350	12″	Clay		
	84	10″	Clay	575.54	
					2,451.55
Hebron st., North to Chestnut st	663	12″	Clay		519.82
Herman st., Sumner ave. to Vermont st	257	12″	Clay		
	286	10″	Clay		603.88
Hiawatha st., White st., westerly	383	10″	Clay		347.99
Hickory st., Hancock st., easterly	200	12″	Clay		
	252	10″	Clay	868.40	
Mill river intercepting sewer to Alden st	754	20″	Clay		
	228	18″	Clay		
	184	15″	Clay	2,557.29	
	788	12″	Clay		
					3,425.69
High st., Maple st. to Ingraham ave	523	18″	Clay		
	567	15″	Clay	1,958.92	
	550	12″	Clay		
Ingraham ave., easterly	846	12″	Clay	987.71	
					2,946.63
Hillman st., Main to Dwight st	350	15″	Clay		
	380	12″	Clay		1,436.30
Hillside place, Richelieu court, easterly	106	8″	Clay		....
Holland st., North Main st., easterly	225	12″	Clay		
	50	10″	Clay		425.75
Holly st., I. O., Worcester to Hampden st	377	15″	Clay	419.11	
Hampden st., southerly	175	12″	Clay	117.69	
					536.80
Hollywood st., Commonwealth ave., easterly	211	12″	Clay		
	241	10″	Clay	508.61	
Dickinson st., easterly	174	10″	Clay	121.04	
					629.65

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Holyoke st., Main st., westerly	734	12″	Cem.		$987.24
Home st., Liberty st., westerly	424	10″	Clay	$322.65	
Penacook ave., easterly	246	10″	Clay	246.22	
					568.87
Homer st., State st., southerly	31	12″	Clay		186.81
	464	10″	Clay		
Horace st., Dickinson st., northerly	363	12″	Clay		861.90
	411	10″	Clay		
Howard st., Main st., westerly	344	15″	Clay	837.22	
	321	12″	Clay		
Water st., easterly	276	12″	Cem.	255.78	
	30	12″	Clay	43.40	
Water st., westerly	314	12″	Cem.	326.98	
	31	12″	Clay	90.75	
					1,554.13
Hubbard ave., Main st., easterly	257	15″	Clay		630.47
	321	12″	Clay		
Hughes st., Sylvan ave., westerly	252	10″	Clay		233.16
Hunt terrace, Allen st., northerly	304	10″	Clay		....
Hunter place, State st., northerly	350	12″	Clay		602.72
	313	10″	Clay		
Huntington st., Birnie ave., easterly	300	12″	Clay		441.98
	300	10″	Clay		
Hyde ave., Fisk ave. to Plainfield st.	301	15″	Clay		712.99
	300	12″	Clay		
	219	10″	Clay		
Ingersoll grove, Worthington st., northerly	782	12″	Cem.	1,038.85	
	218	8″	Clay		
Florida st., easterly	146	10″	Clay	90.97	
Bowdoin st., easterly	132	10″	Clay	106.53	
					1,236.35
Ionia st., State st., northerly	720	10″	Clay		445.92
Irvington st., Sumner ave. to Morningside Park	300	12″	Clay		201.07
	400	10″	Clay		
Itendale st., Belmont ave. to Washington st.	277	20″	Clay		1,520.83
	455	18″	Clay		
James st., Cedar st., northerly	289	15″	Cem.		924.38
	534	12″	Cem.		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Jefferson ave., North Main to Chestnut st.	299	20″	Clay		
See private ways also.	299	18″	Clay	$1,663.86	
	276	15″	Clay		
	60	12″	Clay		
	414	12″	Cem.	531.66	
	78	6″	Clay	37.89	
					$2,233.41
Jenks st., North Main to Chestnut st.	404	12″	Clay		699.05
John st., Fulton to Plainfield st.	652	12″	Cem.		420.18
Johnson st., Dickinson st. to Pasadena ave.	1,964	18″	Clay		3,756.87
Johnson st., I. O., Main to South st.	500	20″	Clay		1,254.26
	463	18″	Clay		
Keith st., Belmont ave. to	551	12″	Clay		
Dickinson st.	551	10″	Clay	1,106.40	
*Dickinson st., southerly.	350	15″	Clay		
	301	12″	Clay	823.06	
	186	10″	Clay		
					1,929.46
Kendall st., Liberty st. to Sherman ave.	907	18″	Clay		2,220.42
Kensington ave., Oakland	451	18″	Clay		
to Earl st.	402	15″	Clay		2,008.61
Earl st. to Pasadena ave.	567	12″	Clay		
	260	10″	Clay		
Kenwood park, Belmont	130	12″	Clay		
ave., northerly	1,127	10″	Clay		139.96
Kenwood terrace, Belmont	218	12″	Clay		
to Sumner ave.	328	10″	Clay		463.91
Kibbe Ave., Summer to Worthington st.	260	18″	Clay		552.92
†**Kibbe Hollow**, northerly of Worthington st.	447	24″	Clay		....
Kimberly ave., White st.,	250	12″	Clay		
northerly	282	10″	Clay		1,315.99
Rupert to Mansfield st.	719	10″	Clay		
King st., Walnut to Han-	504	15″	Cem.		
cock st.	441	12″	Cem.	921.37	
Hancock to Logan st.	311	20″	Clay		
	399	18″	Clay	2,650.91	
	686	15″	Clay		
	238	12″	Clay		
	239	10″	Clay	701.29	

*Surface drainage only. †Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
*Westford to Wilbraham ave.	427	10"	Clay	$321.81	
Westford ave., easterly	225	10"	Clay	197.13	
					$4,792.51
Knox st., Mill river to Windsor st.	1,303	24"	Clay		3,132.56
Ladd st., Eastern ave. to	243	15"	Clay		
Logan st.	304	12"	Clay		479.68
Lafayette st., St. James	582	12"	Clay		
ave. to Amherst st.	21	10"	Clay		545.34
Langdon st., Penacook	504	12"	Clay		
ave., easterly	326	10"	Clay		679.73
Larkspur st., White st.,	299	15"	Clay		
easterly	304	12"	Clay		500.85
	101	10"	Clay		
Laurel st., Conn. river to					
Plainfield st.	534	18"	Cem.	1,548.19	
	405	18"	Clay	1,164.93	
	20	18"	Clay	44.62	
					2,839.65
Laverne ave., Bellevue ave. to Marengo park	211	10"	Clay		....
Lawndale st., Belmont	300	12"	Clay		
ave. to Glenwood st.	302	10"	Clay		614.64
Lebanon st. (see Hancock)	....	3'-6"x5'-3"	Brick	....	
Hancock st., westerly	158	2'-0"x3'-0"	Brick	1,495.77	
Hancock to Eastern ave.	606	18"	Cem.	1,869.20	
	816	15"	Cem.		
					3,364.97
Ledyard st., Armory st., northwesterly	478	10"	Clay		321.39
Leete st., Longhill st., east-	431	18"	Clay		
erly	270	15"	Clay		1,570.13
	150	10"	Clay		
Lenox st., Sumner ave., southerly	465	10"	Clay		103.74
Leonard st., Franklin st.,					
northerly	367	12"	Clay		
	52	10"	Clay		832.48
Leslie terrace, Liberty st., northerly	151	12"	Clay		236.20
Lester st., Sumner ave. to	286	12"	Clay		
Vermont st.	279	10"	Clay		343.74
Lexington ave., Chestnut					
to Massasoit st.	668	12"	Clay	546.52	
†Massasoit st., easterly	437	2'-0"x3'-0"	Con.	1,996.91	
					2,543.43

*Sanitary sewer. †Egg shape.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Leyfred terrace, Belmont ave., northerly	300	18″	Clay		$957.30
	317	15″	Clay		
Liberty st., Garden brook to Main st.	118	12″	Clay	$179.19	
Garden brook to Chestnut st.	70	1′-6″x1′-7″	Brick		
	172	12″	Cem.		
	644	20″	Clay	2,902.14	
	325	15″	Clay		
	184	12″	Clay		
Chestnut to Webster st.	784	2′- 4″x3′-6″	Brick		
	659	1′-10″x2′-9″	Brick	9,123.49	
	684	2′- 2″x3′-3″	Brick		
Webster to Armory st.	366	3′- 0″x4′-6″	Brick		
	1,282	2′- 2″x3′-3″	Brick	5,383.15	
	317	1′-10″x2′-9″	Brick		
	449	2′- 2″x3′-3″	Brick	2,566.69	
Armory to Roy st.	1,194	24″	Clay		
	1,103	18″	Clay	6,390.09	
	1,447	15″	Clay		
					26,544.75
Lillian st., Oak st., easterly	297	12″	Clay		232.47
Lincoln st., Magazine to Federal st.	823	12″	Clay		676.54
Linden st., Chestnut to Cass st.	470	18″	Cem.		1,318.15
	862	15″	Cem.		
Litchfield st., Belmont ave. to Fairfield st.	159	15″	Clay	335.11	
Garfield st., northerly	69	6″	Clay	7.10	
					342.21
Locust st., York to Mill st.	84	3′-0″x4′- 6″	Brick		
	364	2′-9″x4′-1½″	Brick	6,804.18	
	686	2′-6″x3′- 9″	Brick		
Dickinson st., westerly	197	20″	Clay	617.01	
					7,421.19
Logan st., Collins st., southerly	97	10″	Clay	133.56	
Collins to Ladd st.	183	10″	Clay	188.75	
Ladd st., northerly	88	10″	Clay	67.64	
Granville st., northerly	200	10″	Clay	169.04	
					558.99
Lombard st., Water st., easterly	500	12″	Cem.		382.41
Longfellow terrace, White st., westerly	246	12″	Clay	290.03	
	200	10″	Clay		
southerly towards Belmont ave.	229	10″	Clay	153.84	
					443.87

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Longhill st., submerged	26	18″	Clay		
outlet	290	18″	W'd	$5,387.70	
	28	18″	C-ir.		
Conn. river to Washington boulevard	1,373	24″	Clay	2,086.09	
(See Washington boulevard)	283	2′-4″x3′-6″	Brick	1,989.47	
Washington ave., northerly	399	15″	Clay		
	512	12″	Clay	1,027.66	
	160	10″	Clay		
Sumner ave., southerly	356	8″	Clay	386.61	
Main st. to Sumner ave.	90	2′-0″x3′-0″	Con.	447.63	
	136	24″	Clay		
	265	18″	Clay		
	350	15″	Clay	3,594.13	
	400	12″	Clay		
	777	10″	Clay		
					$14,919.29
Longview st., Leete st., southerly	265	12″	Clay	506.49	
	248	10″	Clay	1,163.38	
					1,669.87
Loring st., Water st., easterly	607	12″	Cem.	733.41	
	40	12″	Clay	48.34	
					781.75
Lowell st., Conn. river to Plainfield st.	305	18″	Clay		
	396	15″	Clay		1,063.24
	466	12″	Clay		
	283	10″	Clay		
Lowell st. pumping station	...	....	...		2,991.84
Lyman st., Main to Chestnut st.	1,335	2′-0″x3′-0″	Brick	6,113.12	
Chestnut to Spring st.	418	15″	Clay	1,793.76	
	302	15″	Cem.	695.83	
					8,602.71
Lyndale st., Belmont ave., northerly	350	15″	Clay		
	300	12″	Clay		952.60
	324	10″	Clay		
Lyons st., I. O., Main st., northerly	261	18″	Clay	389.58	
Worcester st., southerly	319	10″	Clay	440.03	
					829.61
Madison ave., Central st., northerly	250	12″	Clay		737.57
	287	10″	Clay		
Magazine st., Worthington to Lincoln st.	682	18″	Cem.		1,267.96
	249	15″	Cem.		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Magnolia terrace, east side, Sumner to Spruceland ave.	620	10″	Clay		
west side, Sumner to Spruceland ave.	621	10″	Clay	$1,233.46	
overflow connection between east and west side	62	8″	Clay	26.00	
Washington to Spruceland ave.	362	24″	Clay		
	602	12″	Clay	21.08	
					$1,280.54
Main st., Pecousic ave. to Longhill st.	191	2′-4″x3′-6″	Con.	1,077.51	
Mill river to Mill st.	258	10″	Clay	342.25	
Locust to Mill st.	385	15″	Clay		
	394	12″	Clay	1,926.01	
Mill st., southerly.	55	15″	Cem.	96.72	
York st. to B. & A. R. R.	56	7′-0″ cir.	Brick		
	1,772	6′-6″ cir.	Brick	20,812.99	
	906	5′-6″ cir.	Brick		
	990	5′-0″ cir.	Brick		
	1,624	3′-4″x5′-0″	Brick	34,453.56	
	864	2′-4″x3′-6″	Brick		
	264	12″	Clay	359.25	
Cypress to Emery st.	298	15″	Clay		
	270	12″	Clay	1,210.56	
Emery st., southerly.	278	12″	Cem.	389.20	
Emery to Sargeant st.	341	24″	Clay		
	442	20″	Clay		
	480	18″	Clay	2,840.72	
	186	15″	Clay		
					63,508.77
Main st., I. O., Chicopee river to Pine st.	2,321	2′-4″x3′-6″	Brick	7,654.03	
Pine to Cedar st.	500	18″	Cem.		
	185	15″	Cem.	896.63	
	103	12″	Clay	128.49	
Cedar to Lyons st.	1,110	2′-0″x3′-0″	Brick	5,068.28	
Chicopee river through private land and Main st. to Beaudry st.	699	18″	Clay		
	232	15″	Clay	1,530.17	
	212	10″	Clay		
Parker st., westerly.	473	12″	Clay	517.35	
Lyons st., easterly.	205	24″	Clay		
	245	18″	Clay	1,334.58	
	129	12″	Clay		
					17,129.53
Malden st., Allen st., southerly.	542	15″	Clay		
	291	12″	Clay		153.77
	581	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Manchester terrace, White st., southerly	254	15″	Clay		$518.76
Manhattan st., Eastern ave. to Walnut st	290	15″	Clay		
	645	12″	Clay		862.70
	205	10″	Clay		
Manitoba st., White to Blaine st	247	15″	Clay		
	256	12″	Clay		1,037.77
	273	10″	Clay		
Mansfield st., White st. to Kimberly ave	351	18″	Clay		
	251	15″	Clay		1,814.89
	341	12″	Clay		
Maple st., State to Temple st	315	18″	Clay	$675.51	
	....	....	....	51.55	
Park to High st	225	18″	Clay	505.21	
Union st., southerly	515	18″	Cem.		
	135	12″	Cem.	959.13	
Central st. to Avon place.	192	24″	Clay	1,417.41	
Central st., southerly	33	18″	Cem.		
	388	12″	Cem.	160.95	
	784	12″	Clay	1,289.58	
Pine st., northerly	195	15″	Cem.		
	522	12″	Cem.	1,093.44	
					6,152.78
Mapledell st., State to Burr st	337	15″	Clay		
	300	12″	Clay		133.34
	388	10″	Clay		
Maplewood terrace, Fort Pleasant ave., easterly.	682	15″	Clay		
	329	12″	Clay		22.21
	178	10″	Clay		
Marble st., Main st., easterly	222	18″	Cem.		
	586	15″	Cem.		1,248.12
	242	12″	Cem.		
Marengo park, Belmont ave., easterly	443	15″	Clay		
	612	12″	Clay		117.62
	778	10″	Clay		
Margaret st., Water st., westerly	520	12″	Cem.	540.89	
Water st., easterly	825	12″	Cem.	855.32	
	30	12″	Clay	31.41	
					1,427.62

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Marion st., Bay st., southerly	833	12″	Clay	$944.01	
Chapin st., easterly	94	10″	Clay	25.89	
	319	8″	Clay		
					$969.90
Market st., State st., northerly	119	10″	Clay	....	
Sanford st., southerly	200	12″	Clay	437.55	
Sanford st. to Harrison ave.	301	15″	Clay	1,197.72	
	350	12″	Clay		
Harrison ave., southerly	154	12″	Cem.	....	
					1,635.27
Marlboro ave., State st. to Wilbraham road	300	12″	Clay		555.21
	449	10″	Clay		
Marlborough st., Bristol st., easterly	160	10″	Clay	101.12	
Middlesex to Suffolk st.	172	10″	Clay	177.34	
					278.46
Marshall place (see Melrose st.).					
Mason place, Dickinson st., southerly	200	12″	Clay		433.02
	276	10″	Clay		
Mason st., State to Pease st.	349	15″	Clay		746.99
	359	12″	Clay		
Massachusetts ave., Wilbraham road, southerly	300	15″	Clay		
	300	12″	Clay	1,056.92	
	227	10″	Clay		
Westford circle, northerly	218	12″	Clay	47.67	
	489	10″	Clay		
*Westford circle, southerly	603	12″	Clay	798.34	
					1,902.93
Massasoit place, Massasoit st., easterly	381	12″	Clay		....
Massasoit st., Carew st., northerly	709	12″	Cem.	579.69	
	131	10″	Clay	124.62	
Lexington ave., southerly	300	12″	Clay	366.86	
	298	10″	Clay		
Montmorenci st. to Lexington ave.	354	2′-2″x3′-3″	Con.	1,468.20	
†Montmorenci st., northerly across private land to Chapin terrace	377	2′-10″x4′-3″	Con.	2,758.01	
Pratt st., southerly	149	10″	Clay	218.09	
					5,515.47

*Sanitary sewer. † Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Mattoon st., Chestnut to Salem st.	356	1′-4″x2′-0″	Brick		$778.21
	87	15″	Cem.		
Maynard st., State st. to Shattuck ave.	431	15″	Clay	$670.82	
	400	12″	Clay		
*Shattuck ave., northerly.	1,029	10″	Clay	741.18	
					1,412.00
McKnight st., Catharine to Sherman st.	255	15″	Cem.	421.42	
	30	15″	Clay	56.78	
Catharine to Bowles st.	141	10″	Cem.	67.27	
	26	10″	Clay	75.32	
Bowles st. to Girard ave.	119	12″	Cem.	81.85	
	263	10″	Clay	233.51	
					936.15
Mechanic st., Water st., westerly	302	12″	Cem.	205.25	
	20	8″	Clay	72.99	
					278.24
Medford st., Birnie ave., easterly	390	12″	Clay		367.29
	183	10″	Clay		
Melrose st., sewer between Hickory and Melrose st.	429	18″	Clay		
Eastern ave. to Walnut st.	263	15″	Clay		
	558	10″	Clay		
Marshall place, Eastern ave. to Walnut st.	415	10″	Clay		1,791.93
	169	8″	Clay		
Cottage ave., Melrose st. to Marshall place	74	12″	Clay		
Merrick ave., King st., southerly	275	12″	Cem.	48.50	
	24	12″	Clay	29.26	
					77.76
Merwin st., North Main to Chestnut st.	774	15″	Clay		....
Middlesex st., Wilbraham road to Marlborough st.	296	15″	Clay		
	304	12″	Clay		945.92
	474	10″	Clay		
Milford st., Farnsworth to Athol st	295	15″	Clay		690.49
Mill river, intercepting sewer, Mill river to Locust st.	370	5′-3″ cir.	Brick	6,066.64	
	691	4′-0″ cir.	Brick		
Locust to Hickory st.	587	4′-0″ cir.	Brick		
	131	3′-6″x5′-3″	Brick		
	1,743	5′-9″ cir.	Brick	42,706.00	
	779	4′-3″ cir.	Brick		
	1,611	3′-3″ cir.	Brick		

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
*in Mill and Hickory sts.	833	2′-2″x3′-3″	Brick	$9,355.23	
*Hickory st. to Gunn square brook by northerly shore of Watershops pond	4,495	2′-2″x3′-3″	Brick	45,545.71	
					103,673.58
Mill st., Main st., easterly	236	8″	Cem.	75.45	
Locust to Pine st	943	2′-6″x3′-9″	Brick	4,764.79	
Knox to Maple st	352	18″	Clay	668.24	
Dickinson st., easterly	325	24″	Clay	651.69	
					6,160.17
Miller st., Armory st., easterly	598	20″	Clay		
	304	18″	Clay		
	300	15″	Clay		2,216.18
	236	12″	Clay		
Monmouth st., Dorchester st., northerly and easterly	199	12″	Clay	218.15	
	171	10″	Clay	121.75	
Yale st., westerly	64	12″	Clay	45.95	
	278	10″	Clay	281.47	
Berkeley st., northwesterly	350	12″	Clay	235.62	
					902.94
Monroe st., Hancock st. to Eastern ave	611	18″	Cem.		
	789	15″	Cem.		1,983.29
Eastern ave. to Colton st.	316	12″	Cem.		
Monson ave., Greene st., northerly	200	8″	Clay		....
Montmorenci st., Chestnut to Massasoit st.	64	12″	Clay	74.82	
	612	2′-10″x4′-5″	Con.	2,725.07	
					2,799.89
Montpelier st., Main to Niagara st	297	24″	Clay		1,149.00
Montrose st., State to Burr st	338	15″	Clay		
	217	12″	Clay		75.74
	329	10″	Clay		
Moore st., Plainfield st., westerly	299	12″	Clay		600.30
	435	10″	Clay		
Mooreland st., Carew st., northerly to Van Horn ave	601	18″	Clay		
	301	15″	Clay		1,529.16
	299	12″	Clay		
	212	10″	Clay		

*Elliptical.

Digitized by Google

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Morgan st., Garden brook	252	12″	Cem.	$199.08	
to Main st.	25	18″	Cem.	48.07	
Garden brook to North st.	634	18″	Clay	1,460.31	
					$1,707.46
Morningside Park, White st., easterly	392	15″	Clay		503.67
Morrill ave., Carew st., northerly	214	10″	Clay		212.00
Morris st., Main st., easterly	915	2′-0″x3′-0″	Brick	2,942.83	
	496	12″	Cem.	359.07	
					3,301.90
Mountainview st., Forest	297	12″	Clay		28.19
Park ave., easterly	297	10″	Clay		
Mulberry st., Maple st.,	426	15″	Clay	885.41	
easterly and northerly	270	12″	Clay		
	629	12″	Cem.	595.59	
	246	10″	Clay	233.59	
west from Ridgewood terrace	144	15″	Clay	....	
					1,714.59
Murray Hill ave., Liberty st., northerly	....	....	Clay		195.06
Myrtle st., Card-factory	107	10″	Clay		69.76
Pond brook, northerly	237	8″	Clay		
Myrtle st., I. O., Main to					
Worcester st.	377	24″	Clay	1,003.44	
Worcester st., southerly	378	10″	Clay	355.34	
Berkshire st., southerly	180	10″	Clay	189.63	
Hampshire to Essex st.	434	10″	Clay	425.48	
					1,973.89
Narragansett st., Lexington ave., northerly	320	12″	Clay	657.47	
	219	10″	Clay		
Lexington ave., southerly	250	12″	Clay	458.65	
	251	10″	Clay		
					1,116.12
Nelson ave., Greene st., northerly	310	10″	Clay	421.30	
Lebanon to King st.	188	10″	Cem.	143.78	
	67	10″	Clay	110.87	
					675.95
Nelson st., Nursery st., easterly	308	24″	Clay		....
New st., E. Court st., northerly	237	12″	Cem.	307.75	
	33	8″	Clay	14.18	
Dwight st., westerly	164	10″	Clay	203.79	
					525.72

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Newbury st., Carew st. to Sherman ave	1,070	10″	Clay		$1,138.70
Newland st., Plainfield st., westerly	350	18″	Clay		2,018.75
	349	15″	Clay		
	555	12″	Clay		
Newman st., Knox st., westerly	174	12″	Clay		506.69
	127	10″	Clay		
Niagara st., Montpelier to Saratoga st	220	18″	Clay	$539.50	
Montpelier to Oswego st.	146	18″	Clay	358.02	
					897.52
Noble st., North Main to Chestnut st	514	15″	Clay		1,074.99
Noel ave., Mill to Oakland st	204	20″	Clay		
	146	18″	Clay		
	380	15″	Clay	2,512.92	
	486	12″	Clay		
	252	10″	Clay		
Orange st., northerly	30	12″	Clay	32.29	
					2,545.21
Norfolk st., Wilbraham rd., southerly	300	15″	Clay	566.08	
	300	12″	Clay		
	229	10″	Clay	155.85	
					721.93
North st., Ferry st., northerly	148	10″	Clay	223.34	
Carew st., northerly	190	8″	Cem.	84.88	
Church to Grosvenor st.	68	18″	Cem.	157.13	
Morgan to Ringgold st.	198	18″	Cem.	356.84	
Osgood to Hebron st	130	18″	Clay	426.85	
	165	10″	Clay		
Bancroft st. to Brookline ave	302	18″	Clay	411.55	
Bancroft st., northerly	153	12″	Cem.	217.15	
	64	12″	Clay		
Jefferson ave., northerly	233	8″	Clay	197.21	
Calhoun st., northerly	256	8″	Clay	48.13	
Waverly to Grove st	362	12″	Clay	302.86	
Harriet st., southerly	86	8″	Clay	....	
Harriet to Cumberland st.	304	10″	Clay	389.10	
					2,815.04
Northampton ave., Wilbraham rd., southerly	1,101	12″	Clay	877.47	
Gunn square, northerly	126	10″	Clay	118.79	
Gunn square to King st.	249	12″	Clay	340.32	
	202	10″	Clay		
					1,336.58

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
North Church ave., Cook's ave., easterly	209	10″	Cem.		
Cook's ave., westerly (for cost see Cook's ave.)	133	10″	Cem.		
No. Main st., Morgan st., southerly	232	8″	Clay	$232.92	
Morgan st., northerly	173	8″	Clay	90.69	
Osgood st., southerly	199	10″	Clay	649.04	
Arch to Osgood st	730	15″	Cem.	713.66	
*Arch st. to Jefferson ave.	185	2′-2″x3′-3″	Brick	974.27	
Jefferson ave. to Grove st.	359	24″	Clay		
	420	20″	Clay	2,568.01	
	285	15″	Clay		
Grove st., northerly	170	12″	Clay	226.45	
Douglas to Harriet st	551	1′-8″x2′-6″	Brick	1,874.35	
Harriet to Waverly st	250	24″	Clay	470.75	
Douglas to Eagle st	326	2′-4″x3′-6″	Brick	1,840.24	
	272	1′-10″x2′-9″	Brick		
Eagle to Walter st	296	24″	Clay	952.02	
Wason ave. to Walter st.	215	2′-0″x3′-0″	Brick	860.00	
	349	1′-8″x2′-6″	Con.	1,577.72	
	155	24″	Clay	1,291.96	
	204	15″	Clay		
Wason ave., northerly	600	12″	Clay	535.43	
Chicopee line, southerly	106	15″	Clay	184.06	
	201	15″	Clay	812.39	
	199	12″	Clay		
					$15,853.96
Norwood st., Main to Hanover st	1,051	12″	Cem.		1,156.64
Nursery st., Liberty to Franklin st	694	2′-8″ cir.	Brick	2,284.52	
Franklin st., northerly	587	2′-8″ cir.	Brick	....	
					2,284.52
Oak st., Union to State st.	741	2′-0″x3′-0″	Con.	3,092.11	
Union to Tyler st	220	18″	Clay	752.00	
	268	15″	Clay		
Walnut to Tyler st	177	18″	Clay	339.99	
					4,184.10
Oak st., I. O., Chicopee river to Main st	684	4′-0″ cir.	Con.	4,404.88	
north from Main st	179	15″	Cem.	637.00	
	171	12″	Cem.		
Main st., southerly	590	2′-2″x3′-3″	Brick	2,345.84	
brick sewer to Hampshire st	797	24″	Clay	1,652.79	
Hampshire st., southerly	285	18″	Clay		
	300	15″	Clay	1,562.43	
	400	12″	Clay		
					10,602.94

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Oak Grove ave., State to Center st	349	18″	Clay		
	327	15″	Clay	....	
	254	12″	Clay		
Center st., northerly	621	10″	Clay	$294.84	
Bay st., southerly	350	18″	Clay		
	350	15″	Clay	1,381.91	
	301	12″	Clay		
	325	10″	Clay		
					$1,676.75
Oak Grove Park, Center st., westerly	144	10″	Clay		157.99
Oakland st., Belmont ave., southerly	311	10″	Clay	330.77	
Belmont ave. to Dickinson st	895	24″	Clay	2,249.94	
Dickinson to Orange st.	254	24″	Clay		
	350	18″	Clay	1,619.20	
	170	12″	Clay		
	218	8″	Clay	110.79	
Allen to Orange st	625	18″	Clay		
	304	15″	Clay	1,428.06	
	193	12″	Clay		
	404	10″	Clay		
Sumner ave. to Garfield st	280	12″	Clay	468.60	
	221	10″	Clay		
					6,207.36
Olive st., Eastern ave. to Logan st	540	10″	Clay		481.41
Orange st., Bailey square to Euclid ave	1,119	3′-0″ cir.	Con.	6,744.60	
Euclid ave. to Oakland st	697	24″	Clay	1,973.44	
Oakland st., easterly	583	8″	Clay		
White st., westerly	381	12″	Clay	1,240.87	
	649	10″	Clay		
White st., easterly	924	10″	Clay		9,958.91
	325	20″	Clay		
Orchard st., Plainfield st., westerly	301	15″	Clay		1,061.27
	297	12″	Clay		
	494	10″	Clay		
Orchard st., I. O., South st., southerly	275	12″	Clay		1,123.49
	350	10″	Clay		
Orlando st., Sumner ave., southerly	127	12″	Clay	374.83	
	240	10″	Clay		
Belmont ave., northerly	246	12″	Clay	460.95	
	193	10″	Clay		
					835.78

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Orleans court, Orleans st., westerly	205	8″	Clay		...
Orleans st., Union st., northerly	39	12″	Cem.	$36.23	
	310	12″	Clay	456.19	
	330	10″	Clay		
Tyler st., northerly	188	10″	Cem.	187.74	
Pendleton ave., northerly.	231	12″	Cem.	327.73	
					$1,007.89
Ormond st., Belmont to Sumner ave	275	10″	Clay		252.85
***Osborne terrace,** Page blvd. to Bowles park	1,414	10″	Clay		1,421.18
Osgood st., Garden brook to Main st	257	15″	Clay	547.77	
Garden brook to North st.	340	24″	Clay	2,055.99	
	340	20″	Clay		
					2,603.76
Oswego st., Niagara st., easterly	256	15″	Clay		
	259	12″	Clay		1,309.66
	246	10″	Clay		
Oxford st., Riverview terrace, northerly	63	12″	Clay	....	
	227	12″	Clay	549.19	
	291	10″	Clay		
					549.19
Ozark st., Grand ave., southerly	456	10″	Clay		61.80
***Page boulevard,** St. James ave. to Edendale st.	4,817	24″	Clay		22,208.48
	1,830	20″	Clay		
Palm st., Crown st., northerly	320	10″	Clay		351.32
Palmer ave., Locust st., easterly	351	18″	Clay	1,190.78	
	337	15″	Clay		
	14	12″	Cem.	....	
					1,190.78
Park st., Main to Willow st.	395	24″	Clay	1,609.31	
Willow to Maple st.	200	24″	Clay	1,431.05	
	557	18″	Clay		
					3,040.36
Parker st., I. O., Chicopee river to Main st.	32	24″	Clay	261.81	
	221	12″	Clay		
Main st., southerly	1,292	24″	Clay	3,284.90	
†Loon pond to B.&A.R.R.	1,227	12″	Clay	1,266.36	
					4,813.07

*Sanitary sewers. †Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Parkside ave., Carew st. to Van Horn ave.	350	18″	Clay		
	350	15″	Clay		
	351	12″	Clay		$1,198.20
	300	10″	Clay		
Parkwood st., Sumner ave., southerly	215	12″	Clay		
	204	10″	Clay		70.08
Pasadena st., White st., southerly	156	12″	Clay		
	291	10″	Clay	$325.65	
Johnson st., northerly	358	10″	Clay	282.96	
Johnson st., southerly	391	10″	Clay	369.66	
					978.27
Pasco road, I. O., Essex st., southerly	724	10″	Clay		607.80
Patton st., Garden brook to Main st.	214	10″	Clay	173.73	
Garden brook, easterly	352	18″	Clay		
	349	15″	Clay	1,572.67	
	537	12″	Clay		
					1,746.40
Peabody lane, Willow st., westerly	292	10″	Clay		332.17
Pearl st., Chestnut to Spring st.	514	24″	Clay	1,792.62	
	447	20″	Clay		
Spring st., easterly	190	1′-6″ cir.	Brick	96.16	
					1,888.78
Pease st., Catharine to Bowles st.	250	12″	Clay		50.58
Pecousic ave., Mill river to Main st.	352	2′-8″x4′-0″	Con.	2,285.30	
Main st., southerly	549	20″	Clay	1,587.94	
York st., southerly	302	18″	Clay		
	300	15″	Clay	1,972.19	
	228	12″	Clay		
					5,845.43
Penacook ave., Governor to Home st.	106	12″	Clay	76.42	
Wait to Langdon st.	97	15″	Clay	159.48	
					235.90

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Pendleton ave., Walnut to Hancock st.	287	18″	Cem.	$1,663.94	
	524	15″	Cem.		
	429	12″	Cem.		
Hancock st. to Eastern ave.	600	18″	Cem.	1,494.53	
	793	15″	Cem.		
					$3,158.47
Phoenix st., Liberty st., easterly	236	18″	Clay		
	250	15″	Clay		840.32
	89	10″	Clay		
Phoenix terrace, Kendall ave. to Freeman terrace	300	15″	Clay	1,155.35	
	250	12″	Clay		
	251	10″	Clay		
Freeman terrace to Newbury st.	243	12″	Clay	608.10	
	254	10″	Clay		
					1,763.45
Pierce court, Pendleton ave., southerly	166	10″	Clay		324.50
Pine st., Mill to Cedar st.	740	2′- 6″x3′-9″	Brick	13,684.58	
	1,529	3′- 6″x5′-3″	Brick		
	500	3′-10″x5′-9″	Brick		
Cedar to Walnut st.	62	18″	Cem.	1,809.27	
	884	15″	Cem.		
	631	12″	Cem.		
					15,493.85
Pine st., I. O., Main st., easterly	1,896	24″	Clay		4,170.03
Pine st. court, Pine st., easterly	348	10″	Cem.		266.39
Pineywoods ave., Washington blvd., northeasterly	439	15″	Clay	497.39	
	263	12″	Clay		
Magnolia terrace, westerly	350	10″	Clay	42.93	
Magnolia terrace to Washington road	343	20″	Clay	....	
	404	15″	Clay		
Washington road to Forest Park ave.	341	12″	Clay	....	
					540.32
Plainfield st., Sargeant to Fulton st.	414	18″	Clay	2,525.13	
	537	15″	Clay		
	456	12″	Clay		
	244	10″	Clay		
Washburn to West st.	154	12″	Clay	582 80	
	295	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Washburn to Division st..	331	2′-8″x4′-0″	Brick	$1,652.00	
	303	2′-6″x3′-9″	Brick	2,464.93	
	287	2′-4″x3′-6″	Brick	4,853.22	
	294	2′-2″x3′-3″	Brick		
	290	24″	Clay	1,036.73	
Rowland to Division st...	648	2′-2″x3′-3″	Con.	3,548.32	
	299	24″	Clay	1,419.29	
	208	15″	Clay		
Rowland st. to Talcott ave.....	288	24″	Clay	1,354.45	
	299	20″	Clay		
Talcott ave., northerly...	216	10″	Clay	303.96	
Laurel ave. to Demond ave.....	228	12″	Clay	391.86	
Wason to Demond ave...	304	24″	Clay		
	249	20″	Clay	1,314.80	
	53	18″	Clay		
					$21,447.49
Pleasant st., Bay st., southerly.....	296	12″	Cem.		249.74
Plymouth st., Fulton st., easterly.....	375	10″	Clay		196.59
Pomona st., Sumner ave., northerly	580	12″	Clay	459.94	
	297	10″	Clay	204.92	
					664.86
***Porter ave.**, St. James ave., westerly.....	204	10″	Clay		325.87
Portland st., Birnie ave., easterly.....	251	12″	Clay		351.35
	224	10″	Clay		
Portsmouth st.....	212	12″	Clay		261.41
Pratt st., Chestnut to Marvin st.....	350	15″	Clay		869.53
	299	12″	Clay		
Prescott st., Belmont ave., northerly.....	340	10″	Clay		250.22
Prince st., King to Lebanon st.....	329	12″	Cem.		333.15
Princeton st., Bay to Amherst st.....	103	18″	Cem.	289.08	
	689	18″	Clay	724.15	
	151	15″	Clay	177.72	
Yale to Vassar st.....	665	12″	Cem.	74.75	
St. James ave. to Cornell st.....	298	12″	Cem.	195.52	
					1,461.22

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Priscilla st., White st., westerly	220	10″	Clay		$185.84
Private ways and private lands:					
*Albemarle st., easterly to Brook channel	135	3′-0″ cir.	Con.		1,591.20
Armory Hill sewer from Armory st., through private grounds east of Armory st. to Worthington st.	150	2′-5″x3′-7½″	Brick		
	900	2′-8″x4′- 0″	Brick		5,318.04
	249	2′-1″x3′-1½″	Brick		
Card-factory Pond, Woodworth ave., westerly between High and State sts.	751	12″	Cem.	$408.75	
in front and around High school	492	24″	Clay	848.26	
High school to State st.	88	24″	Clay	192.35	
					1,449.36
in front and around High School of Commerce and on private lands easterly	142	15″	Clay		
	144	12″	Clay		....
	226	10″	Clay		
Cemetery brook, Morris st., easterly, north of Central st.	174	24″	Clay		569.59
Chester to Hancock st.	218	8″	Clay		....
Garden brook sewer, north from Liberty st. to B. & M. R. R. via Arch st. about 300 feet east of Main st.	2,936	5′-6″ cir.	Brick		
	766	5′-0″ cir.	Brick	47,594.81	
	1,303	4′-6″ cir.	Brick		
	236	3′-0″x4′-6″	Brick		
Worthington st., northeasterly to Lyman st., then via Railroad land to Armory st.	3,274	4′-7¼″ cir.	Brick	29,838.13	
	952	4′-1″ cir.	Brick		
					77,432.94

*Storm water.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
East Springfield sewer, northerly and easterly from Albany st. through private land to Chicopee road	1,920	3′-9″ cir.	Con.		
	760	2′-6″ cir.	Con.		
	160	2′-10″x4′-3″ Elliptical	Con.		$17,567.09
*Gunn square brook sewer, from Hickory st., through private land to Albemarle st.	1,585	15″	Clay		1,401.20
Hickory to Melrose st. (see Melrose st.)	....	18″	Clay		....
Jefferson ave., passageway in rear of lots on south side	135	2′-0″x3′-0″	Brick	....	
	518	12″	Cem.	$364.84	
					364.84
Main to Dale st., between Hubbard ave. and William st.	655	12″	Cem.		441.92
Passageway, Ferry to Liberty st., 80 ft. east of Main st.	210	12″	Clay		402.70
Potter place, State st., northerly	396	15″	Clay		
	301	12″	Clay		
	274	10″	Clay		....
Sewer in ave. Hampden st. southerly, near Water st.	111	12″	Clay		147.14
Springfield st. via Atwater Glen to Springfield st.	677	3′-6″ cir.	Brick		
	598	3′-3″ cir.	Brick		
	389	4′-3″ cir.	Brick		
	1,292	3′-0″ cir.	Brick		14,614.89
	40	2′-0″ cir.	Brick		
	16	2′-10″x4′-3′	Brick		
Prospect st., Chestnut to Massasoit st.	218	18″	Clay		
	199	15″	Clay	623.53	
	196	12″	Clay		
Massasoit st., easterly	325	12″	Clay		
	423	10″	Clay	844.78	
					1,468.31

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Pulaski alley, I. O., Parker st., easterly	225	12″	Clay		$320.24
Pynchon st.	950	2′-0″x3′-0″	Brick		3,108.02
Quebec st., I. O., Lyons st., easterly	464	15″	Clay		1,364.77
	242	12″	Clay		
Queen st., Walnut to Hancock st.	634	12″	Cem.		758.86
Quincy st., Oak to Stebbins st.	860	12″	Cem.	$651.15	
Hancock to Stebbins st.	522	12″	Cem.	549.58	
Hancock st. to Eastern ave.	637	18″	Cem.	1,766.39	
	765	15″	Cem.		
Colton st. to Eastern ave.	208	10″	Clay	156.87	
					3,123.99
Railroad st., Water st. underpass, easterly	168	12″	Clay		290.55
	208	12″	Clay		
Randolph st., Maplewood terrace, easterly	250	12″	Clay		22.96
	251	10″	Clay		
Ranney st., Wilmont st., southerly	85	10″	Clay	96.04	
Wilmont st., northerly	200	10″	Clay	151.76	
Johnson st., northerly	301	12″	Clay	426.13	
	264	10″	Clay		
Kensington ave., northerly	206	10″	Clay	149.18	
					823.11
Rapalus ave., I. O., Parker st., southerly	442	12″	Clay		448.05
Raymond ave., Carew st., northerly	277	10″	Clay		217.32
Redlands st., Page boulevard to Oklahoma st.	1,058	10″	Clay		2,420.48
Reed st., State st., southerly	219	12″	Clay		244.74
	362	10″	Clay		
Revere st., White st., southerly	750	20″	Clay		99.05
	250	10″	Clay		
	209	8″	Clay		
Richelieu court, Adams st., southerly	160	12″	Clay		602.61
	315	10″	Clay		
Richelieu place, Richelieu court, easterly	100	8″	Clay		....

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Ridgewood place, Mulberry st., northerly....	400	12″	Clay	$29.46	
	76	10″	Clay	101.95	
					$131.41
Ridgewood terrace, Mulberry st., westerly.....	226	10″	Clay	....	
Union st., southerly.....	137	10″	Clay	162.13	
					162.13
Rimmon ave., Greene lane to Weaver ramble.....	859	18″	Clay	....	
Weaver ramble, northerly.....	200	12″	Clay	....	
Rimmon st., Hamburg st., northerly.....	251	12″	Clay		787.19
	254	10″	Clay		
Ringgold st., North to Chestnut st.....	436	15″	Clay		1,226.47
	312	12″	Clay		
Ripley place, St. James ave., southerly.....	230	10″	Cem.		163.48
Rittenhouse terrace, Sumner ave. to Davisston ave.....	250	18″	Clay		
	249	15″	Clay		
	249	12″	Clay		1,109.44
	128	10″	Clay		
Riverview st., Riverview terrace to Chase ave...	63	10″	Clay	....	
	310	10″	Clay	354.50	
Forest Park ave., southerly.....	299	10″	Clay	239.39	
					593.89
Riverview terrace, Fort Pleasant ave., easterly.	298	15″	Clay		
	322	12″	Clay		36.21
	105	10″	Clay		
Rochelle st., Wilbraham road, southerly.....	424	18″	Clay		
	200	15″	Clay		
	260	12″	Clay		1,188.31
	175	10″	Clay		
Rockland st., Sumner ave., northerly.....	549	12″	Clay		717.51
Rogers ave., I. O., Main st., southerly.....	97	15″	Clay		
	152	12″	Clay		356.39
	40	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Roseland st., Plainfield st., westerly	350	18″	Clay		
	350	15″	Clay		$1,530.97
	241	12″	Clay		
Rowland st., Conn. river to North Main st., including 630′ in Douglas st.	579	5′-3″ cir.	Brick		
	51	1′-8″x2′-6″	Brick		32,489.36
	1,247	6′-6″ cir.	Brick		
	1,330	6′-0″ cir.	Brick		
Rupert st., White st. to Kimberly ave.	241	18″	Clay		
	152	15″	Clay		614.13
Ruskin st., Eleanor road, southerly	231	12″	Clay		
	233	10″	Clay		422.04
Rutland st., Wilbraham road to State st.	199	8″	Clay		147.15
Rutledge ave., Main st., easterly	574	24″	Clay		49.43
Sachem st., Dickinson st., northerly	330	10″	Clay	$368.85	
Orange st., southerly	30	12″	Clay	35.31	
					404.16
Sackett place, southerly of Worthington st.	128	12″	Clay		186.80
Salem st., Pearl st., south and east	283	18″	Cem.		
	99	15″	Cem.		879.36
	290	12″	Cem.		
***Sanford st.**	536	3′-2″x4′-9″	Brick		4,014.47
Saratoga st., Niagara to Richelieu st.	233	15″	Clay		
	229	12″	Clay	1,023.97	
	129	10″	Clay		
Niagara to Main st.	172	12″	Clay	268.01	
					1,291.98
***Sargeant st.**, Fulton to Main (cost shown under Clinton st.)	920	4′-6″x6′-9″	Brick		....
School st., Union to Mulberry st.	560	15″	Clay	620.95	
Union st., northerly	258	10″	Clay	286.32	
					907.27
Scott st., White to Pomona st.	300	12″	Clay		
	347	10″	Clay		468.68

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Searle place, Walnut st., easterly	178	10″	Clay		$231.61
Seventh st., Fulton to Main st	830	12″	Cem.		700.00
Sewer in avenue (see private ways).					
Sewer (see private ways).					
Shamrock ave., Orange st., northerly	30	12″	Clay		26.58
Sharon st., Garden brook to Main st	209	15″	Clay	$945.67	
	151	12″	Clay		
Garden brook, easterly	301	20″	Clay		
	300	18″	Clay		
	231	15″	Clay	2,355.50	
	232	12″	Clay		
					3,301.17
Shattuck st., Maynard st. to Willard ave	200	10″	Clay		
	143	8″	Clay	....	
Willard ave., easterly	210	8″	Clay	75.40	
					75.40
Sheffield st., Shillingford st., northerly	209	10″	Clay		234.97
Shefford st., Glenwood sewer southerly towards Springfield st	293	12″	Clay	628.75	
	350	10″	Clay		
easterly towards Springfield st	200	12″	Clay	790.42	
	225	10″	Clay		
*Springfield st., easterly.	75	3′-2″x4′-9″	Con.	1,013.45	
Caseland ave., northerly.	30	10″	Clay	26.83	
					2,459.45
Sheldon st., Birnie ave. to N. Main st	311	12″	Clay		18.49
	317	10″	Clay		
Sherman ave., Kendall ave. to Newbury st	550	15″	Clay		
	550	12″	Clay		1,660.77
	280	10″	Clay		
Sherman st., Bay to Clarendon st	175	12″	Cem.	571.12	
Bay to McKnight st	443	12″	Cem.		
State to McKnight st	301	18″	Clay		
	301	15″	Clay	1,314.14	
	544	12″	Clay		
					1,885.26

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost.	
Shillingford st., Eastern ave. to Sheffield st.....	640	12″	Clay		$464.74
Silver st., Armory st., easterly.....	302	15″	Clay		
	297	12″	Clay		733.99
	251	10″	Clay		
Smith st., Knox to Dorne st.	199	12″	Clay	$196.57	
Dorne st., westerly.....	107	10″	Clay	136.68	
					333.25
Somerset st., Dickinson st., westerly.....	317	15″	Clay		
	305	12″	Clay		1,220.56
	420	10″	Clay		
Sorrento st., Sumner ave., northerly.....	325	12″	Clay	376.55	
Grenada terrace, northerly	367	10″	Clay	252.09	
					628.64
South st., I. O., Healey ave. to East st.....	151	12″	Clay	479.71	
	221	10″	Clay		
Healey to Orchard ave...	125	12″	Clay	283.85	
					763.56
Spencer st., Sumner ave., southerly.....	282	12″	Clay		487.45
	315	10″	Clay		
Spring st., south from Lyman st.....	281	15″	Cem.		
	130	12″	Cem.		
Worthington to State st..	470	18″	Cem.	2,592.14	
	640	15″	Cem.		
	644	12″	Cem.		
Worthington st., northerly	132	12″	Clay	87.28	
Worthington to Summer st.....	183	5′-0″ cir.	Brick	1,498.24	
	*49	4′-3″x6′-0″	Brick		4,177.66
Springfield st., Atwater terrace, to northerly end of Shefford st.....	892	20″	Clay		
	360	18″	Clay		
	413	15″	Clay	3,475.64	
	286	12″	Clay		
	437	10″	Clay		
†Glenwood sewer southerly to Shefford st.....	135	3′-2″x4′-9″	Con.	1,824.12	
Glenwood sewer northerly to Hamburg st.....	1,294	24″	Clay	3,889.98	
					9,189.74

*Segmental. † Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Springfield st. and Glenwood (see private ways)					
Spruce st., Central st., northerly	600	12″	Cem.		$609.90
Spruceland ave., Firglade ave., westerly	158	10″	Clay	$268.87	
Magnolia terrace, westerly	67	8″	Clay	....	
Beechwood ave., easterly.	242	8″	Clay	195.04	
Beechwood ave., westerly.	299	8″	Clay	94.83	
Longhill st., easterly	450	10″	Clay	410.40	
					969.14
Stafford st., Armory st., westerly	402	10″	Clay		367.88
State st., Water st., westerly	70	12″	Cem.	45.27	
	91	12″	Cem.	71.19	
	82	12″	Clay	83.01	
Water to Main st	907	18″	Cem.	1,199.78	
Main to Dwight st	636	18″	Cem.	1,433.50	
*Dwight st. to High school	29	2′-8″x4′-0″	Brick		
	265	2′-2″x3′-3″	Brick	4,897.66	
	417	2′-0″x3′-0″	Brick		
At High school, connecting old with new	54	24″	Clay	161.88	
High school to Elliott st.	305	2′-0″ cir.	Brick	469.65	
High school to Walnut st.	726	2′-0″x3′-0″	Con.		
	306	2′-2″ cir.	Con.	6,442.79	
	1,440	2′-0″ cir.	Con.		
connecting new with old	54	18″	Clay		
Walnut to Oak st	250	18″	Clay		
	253	15″	Clay	1,678.37	
	348	12″	Clay		
Federal st., easterly	695	2′-0″ cir.	Brick	1,062.40	
	130	12″	Clay	274.35	
Oak to Buckingham st.	2,110	18″	Cem.	2,848.93	
Hancock to Sherman st.	1,147	3′-4″x5′-0″	Brick	13,586.64	
Sherman to Mason st	492	3′-0″x4′-6″	Brick		
Mason to Andrew st	726	3′-0″x4′-6″	Brick		
Andrew st. to Oak Grove ave.	937	2′-10″x4′-3″	Brick	10,818.12	
east from Oak Grove ave. to Cortland st	548	2′-4″x3′-6″	Brick		
	283	2′-2″x3′-3″	Brick	5,056.93	
	352	2′-0″x3′-0	Brick		
Cortland st., easterly	355	24″	Clay		
	112	18″	Clay	4,616.11	
	3,399	12″	Clay		
					54,746.58

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
State st. terrace, Shattuck ave., southerly.....	254	10″	Clay		$217.57
Stearns square (West roadway), Bridge st., northerly.....	172	12″	Clay	$205.83	
Worthington st.,southerly	201	12″	Clay	523.75	
					729.58
Stearns square (East roadway), Bridge st., northerly.....	167	8″	Clay	67.00	
Worthington st., southerly	148	12″	Clay	342.98	
					409.98
Stebbins st., Union to	300	12″	Clay	596.89	
State st.....	293	10″	Clay		
Union st., southerly.....	151	10″	Clay	196.80	
					793.69
Sterns terrace, Central st., northerly.....	393	12″	Clay		605.10
***Stevens st.,** Page boulevard to Eureka st.....	1,164	10″	Clay		1,248.43
St. James ave., State st., northerly.....	191	18″	Clay		
	467	12″	Clay	906.01	
	123	10″	Clay		
Bay st. to Ripley place...	91	12″	Cem.	135.23	
Florida st. to Ripley place	469	12″	Cem.	500.89	
Florida st., northerly....	417	18″	Cem.	1,073.90	
	300	12″	Cem.		
Clarendon to Westminster st.....	248	15″	Cem.	404.60	
Clarendon st., northerly..	138	8″	Clay	64.82	
Dartmouth to Harvard st.	385	2′-0″x3′-0″	Brick	2,738.53	
Harvard to Princeton st..	528	24″	Clay	1,799.94	
Princeton st., northerly..	308	18″	Clay		
	249	15″	Clay	965.55	
	57	12″	Clay		
Chicopee road to Page boulevard..	127	24″	Clay	396.52	
***Page boulevard to Porter ave.....	315	18″	Clay	790.13	
					9,776.12
Stockbridge st., Main st., easterly.....	777	18″	Cem.		1,101.77
Stockman st., Carew st. to Newbury st.....	879	20″	Clay		
	260	12″	Clay		2,887.32
	256	10″	Clay		

* Sanitary sewers.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Stratford terrace, White st., easterly	190	12″	Clay		$562.32
	314	10″	Clay		
Suffolk st., Wilbraham road, southerly	300	15″	Clay	$294.06	
	300	12″	Clay	596.52	
	795	10″	Clay		
					890.58
Sullivan st., Armory st., easterly	395	12″	Clay		64.10
***Summer st.,** Spring to Armory st	44	4′-3″x6′-0″	Brick		
	†1,344	4′-2″x6′-3″	Brick		24,048.88
	†1,093	2′-10″x4′-3″	Brick		
	†750	3′- 8″x5′-6″	Brick		
Summit st., Worthington to Federal st	204	12″	Clay		744.48
	263	10″	Clay		
Sumner ave., Fort Pleasant ave. to Longhill st	448	12″	Clay	815.24	
	358	10″	Clay		
Fort Pleasant ave. to Randolph st	673	2′- 0″x3′-0″	Brick		
Randolph st. to Washington road	360	1′-10″x2′-9″	Brick		
Washington road to Forest Park ave	360	1′- 8″x2′-6″	Brick	7,968.46	
Forest Park ave. to Greenleaf st	367	1′- 6″x2′-3″	Brick		
Greenleaf st. to Belmont ave	355	20″	Clay		
	851	18″	Clay		
	736	15″	Clay	2,915.88	
	272	12″	Clay		
	426	10″	Clay		
Belmont ave., easterly	100	8″	Clay	37.49	
†Dickinson to White st	2,219	2′-8″x4′-0″	Brick	11,531.37	
White st. to Castle ave	565	2′-2″x3′-3″	Brick	2,391.46	
	1,110	2′-2″x3′-3″	Con.	2,355.03	
	739	15″	Clay	1,645.60	
	879	12″	Clay		
					29,660.53
Sumner terrace, Sumner ave., northerly	252	12″	Clay		462.38
	220	10″	Clay		
Sunapee st., White st. to Blaine st	376	15″	Clay		
	297	12″	Clay		1,206.27
	337	10″	Clay		

* Segmental. † Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
***Sycamore st.**, Acorn to Bay st.	899	8″	Clay		$352.24
Sylvan ave., Belmont ave. to Fountain place	294	20″	Clay		
	251	18″	Clay	$1,272.55	
	249	15″	Clay		
Fountain place, southerly	151	12″	Clay	266.92	
					1,539.47
Symonds ave., Worthington to Bridge st. (includes cost of Bond pl.)	300	15″	Cem.		696.89
Taft ave., Sylvan to Woodlawn st.	247	10″	Clay		201.65
Talcott ave., Fisk ave. to Plainfield st.	362	15″	Clay		
	316	12″	Clay		549.57
Taylor st., Main to Chestnut st.	330	20″	Clay		
	321	18″	Clay	3,747.24	
	197	15″	Clay		
	50	12″	Clay	51.79	
	341	12″	Cem.	463.50	
					4,262.53
Temple st., Maple to School st.	304	15″	Clay		
	300	12″	Clay	1,127.60	
	345	10″	Clay		
outlet into High school sewer	169	15″	Clay	171.71	
					1,299.31
Tenth st., Garden brook, easterly	300	18″	Clay		
	302	15″	Clay		1,293.88
	421	12″	Clay		
	4	8″	Clay		
Terrence st., Union to State st.	374	12″	Clay		
	313	10″	Clay	565.26	
	48	10″	Cem.	34.02	
					599.28
Thomas st., Birnie ave., easterly	451	10″	Clay		364.91
Thompson st., Worthington st., southerly	603	12″	Cem.	638.27	
St. James ave. to Bay st.	703	15″	Cem.	749.22	
State to Bay st.	852	12″	Cem.	757.02	
					2,144.51

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Thorndyke st., Sumner ave., southerly	353	12″	Clay		$975.10
	398	10″	Clay		
Tracy st., Franklin st., southerly	14	10″	Clay	$15.48	
	367	10″	Clay	222.88	
					238.36
Trafton road, Dickinson st., westerly	351	18″	Clay		923.68
	460	15″	Clay		
	140	12″	Clay		
Trenton st., Dickinson st. to Commonwealth ave.	146	10″	Clay		125.74
Trillium st., White to Greenbrier st	345	10″	Clay		234.62
Trinity terrace, Sumner ave. to Morningside park	300	12″	Clay		533.91
	416	10″	Clay		
Tyler st., Oak to Orleans	419	15″	Clay	769.02	
Orleans to Hancock st	298	15″	Clay	653.33	
	171	12″	Clay		
	492	12″	Clay	571.84	
Hancock st. to Eastern ave	601	18″	Cem.	815.47	
	795	15″	Cem.	718.71	
Eastern ave., easterly	251	10″	Cem.	199.75	
					3,728.12
Underwood st., Franklin st., northerly	483	10″	Clay		567.41
Union st., submerged outlet	165	24″	Wood	1,604.45	
	48	24″	C. Iron	391.23	
Conn. river to Main st	1,610	3′-4″x5′-0″	Brick	8,806.18	
	53	2′-0″x3′-0″	Brick		
Main to Oak st	*718	3′-2″x4′-9″	Con.		
	951	2′-8″ cir.	Con.	13,447.59	
	1,021	2′-3″ cir.	Con.		
	1,504	2′-4″x3′-6″	Con.	7,638.58	
Oak to Orleans st	404	15″	Cem.	467.96	
Hancock to Stebbins st	261	2′-0″x3′-0″	Brick	2,321.08	
	335	1′-10″x2′-9″	Brick		
Stebbins to Orleans st	428	20″	Clay	788.30	
Hancock st. to Eastern ave	600	18″	Cem.	1,535.40	
	800	15″	Cem.		
Eastern ave., easterly	248	10″	Clay	182.22	
					37,182.99

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Van Horn place, Carew st., northerly	162	10″	Clay		$227.68
Vassar st., Harvard st., northerly	550	12″	Cem.		153.37
Ventura st., Sumner ave., northerly	351	10″	Clay	$289.51	
Grenada terrace, northerly	341	10″	Clay	254.12	
					543.63
Vermont st., Converse to Pomona st	258	15″	Clay		
	267	12″	Clay	558.98	
	225	10″	Clay		
Converse st., easterly	314	12″	Clay	272.05	
					831.03
Vernon st., Water st., easterly	589	15″	Cem.	772.37	
Main st., westerly	216	12″	Cem.	310.68	
	50	12″	Clay	328.78	
					1,411.83
Villa parkway, Wilbraham road, southerly	299	15″	Clay		
	302	12″	Clay		785.41
Vine st., Main to Fulton st.	697	12″	Cem.		688.75
Vinton st., Liberty to Franklin st	357	12″	Clay	393.47	
	262	10″	Clay	252.13	
					645.60
Virginia st., Dickinson st. to Trafton road	348	15″	Clay		
	301	12″	Clay		731.42
	344	10″	Clay		
Wait st., Armory st. to Penacook ave	500	24″	Clay		
	470	20″	Clay		2,422.92
	250	18″	Clay		
	249	15″	Clay		
Walden st., Dickinson st., easterly	166	8″	Clay	94.93	
Commonwealth to Belmont ave	296	10″	Clay	168.26	
					263.19
Walker st., Water st., westerly	650	12″	Clay		688.37
Walnut court, Walnut st., westerly	211	10″	Clay		188.15
Walnut st., south from State st	69	1′-6″x1′-8″	Brick	85.23	
north from Charter ave	292	10″	Clay	418.30	
Union st. to Charter ave	279	12″	Cem.	482.50	

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Union to Oak st.	558	12″	Clay	$792.64	
	17	12″	Cem.	20.50	
Cedar to Pine st.	1,142	2′-0″x3′-0″	Brick	4,986.58	
Pine to Oak st.	254	18″	Cem.	383.04	
Hancock to Cedar st.	784	15″	Cem.	1,289.38	
Hancock st., southerly	180	12″	Cem.		
north from Manhattan st.	249	10″	Clay	238.06	
Florence st., northerly	53	8″	Cem.	27.12	
Hickory to Florence st.	1,026	12″	Clay	1,006.69	
					$9,730.04
Walter st., Birnie ave. to North Main st.	385	12″	Clay		422.74
Waltham ave., Wilbraham road, southerly	911	12″	Clay		953.07
Wareham st., Grand ave., southerly	419	10″	Clay		21.24
Warner st., Fort Pleasant ave. to Longhill st.	508	12′	Clay		
	198	10″	Clay	....	
	89	10″	Clay	51.88	
					51.88
Warriner ave., Locust st., easterly	448	12″	Clay		463.97
Washburn st., Conn. river to B. & M. R. R.	1,758	7′-0″ cir.	Brick		21,678.46
Washington boulevard, Longhill st. to Pineywoods ave.	304	2′-4″x3′-6″	Brick	5,032.68	
	823	2′-2″x3′-3″	Brick		
	308	18″	Clay		
	200	15″	Clay	868.79	
	242	12″	Clay		
	330	10″	Clay		
					5,901.47
Washington road, Sumner ave., southerly	422	10″	Clay	56.78	
	38	8″	Clay		
Pineywoods ave., northerly	141	10″	Clay	149.77	
	281	10″	Clay	....	
					206.55
Washington st., Dickinson st. to Commonwealth ave.	306	12″	Clay	531.14	
	215	10″	Clay		
Itendale to Woodlawn st.	259	12″	Clay	363.85	
	208	10″	Clay		
					894.99

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Wason ave., Conn. river to Plainfield st.	451	3'-10"x5'-9"	Brick		
Plainfield st. to Fisk ave.	1,051	3'- 4"x5'-0"	Brick		
Fisk to Birnie ave.	634	3'- 2"x4'-9"	Brick		$16,642.62
Birnie ave. to North Main st.	247	2'- 0"x3'-0"	Brick		
Water st., Gardner to Loring st.	474	1'-10"x2'-9"	Brick	$1,219.79	
Loring st., northerly	345	12"	Cem.	237.38	
Union to Margaret st.	721	2'- 0"x3'-0"	Brick	2,367.61	
Union st., northerly	868	18"	Cem.		
Elm to State st.	275	18"	Cem.	508.75	
Elm to Pynchon st.	43	2'- 0"x3'-0"	Brick	198.00	
	498	2'- 6"x3'-6"	Brick	2,949.29	
Pynchon st., northerly	257	18"	Cem.	404.44	
	329	15"	Cem.	460.60	
	61	12"	Cem.	132.69	
Worthington st., southerly	209	10"	Clay	444.76	
Worthington to Hampden st.	327	15"	Cem.	511.50	
Hampden to Railroad st.	250	12"	Clay	497.29	
					9,932.10
Water st. underpass, Cypress to Railroad st.	359	18"	Clay		....
	236	15"	Clay		....
Waverly st., North Main to Chestnut st.	473	20"	Clay		1,268.03
	487	10"	Clay		
Weaver ramble, Rimmon ave., westerly and northerly	480	12"	Clay		....
Webster st., Liberty to Franklin st.	601	12"	Clay		505.99
Welcome place, Bay st., northerly	238	8"	Clay		17.84
Wellesley st., St. James ave. to Cornell st.	236	12"	Clay		540.30
	224	10"	Clay		
Wellington st., Wilbraham road, southerly	287	15"	Clay		
	244	12"	Clay		46.33
	291	10"	Clay		
Wendell place, Main st., easterly	458	15"	Clay		....
* **West st.**, Connecticut river to Plainfield st.	635	15"	Clay		1,867.65
	511	12"	Clay		

* Stormwater.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
West Alvord st., Sumner ave. to Daviston ave...	153	24″	Clay		
	268	20″	Clay		
	550	18″	Clay		$1,546.17
	300	15″	Clay		
	412	12″	Clay		
Westernview st., Forest Park ave., easterly....	468	12″	Clay		
	138	10″	Clay		539.60
Westford ave., Wilbraham road, southerly.....	300	15″	Clay		
	300	12″	Clay	$676.23	
	350	10″	Clay		
*Westford circle to King st.	541	12″	Clay	454.36	
					1,130.59
***Westford circle**, Albemarle st. to Westford ave.....	786	12″	Clay	1,457.52	
†Albemarle st., westerly..	170	3′-0″ cir.	Seg.Blk.	2,003.74	
					3,461.26
Westminster st., Bay to State st.....	300	15″	Clay		
	300	12″	Clay	705.11	
	201	10″	Clay		
St. James ave., southerly.	773	12″	Cem.	794.10	
					1,499.21
White st., Allen to Orange st.....	747	24″	Clay	$1,829.93	
	674	20″	Clay	1,729.93	
	274	18″	Clay		
Orange st. to Dawson ave.	388	15″	Clay	389.27	
	292	15″	Clay	300.87	
Gordon st. to Dawson ave.	192	10″	Clay	237.91	
Gordon st., southerly....	690	12″	Clay	746.74	
	207	8″	Clay	84.45	
Sumner ave. to Stratford ter.....	1,266	24″	Clay	2,104.72	
Sumner ave. to Trillium st.....	1,028	20″	Clay		
	166	18″	Clay	2,300.75	
	329	12″	Clay		
Belmont ave. to Trillium st.....	233	24″	Clay		
	191	12″	Clay	1,189.60	
	210	10″	Clay		
Belmont ave. to Dwight road.....	1,178	2′-8″x4′-0″	Con.	5,324.32	
Dwight road to Longmeadow line.....	179	24″	Clay	550.34	
					16,788.83

*Sanitary sewer. † Stormwater.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Whiting st., Plainfield st., westerly	299	18″	Clay		
	297	15″	Clay		$834.16
	196	12″	Clay		
Whitney ave., Water st., westerly	450	12″	Cem.		326.94
Whittier st., Sumner ave. to Longfellow terrace	301	18″	Clay		
	299	15″	Clay		
	301	12″	Clay		1,290.11
	221	10″	Clay		
Wight place, Water st., easterly	175	10″	Clay		290.41
Wigwam place, Dickinson st., easterly	324	10″	Clay		463.06
Wilbraham ave., Wilbraham road, southerly	1,125	12″	Clay	$1,020.78	
Alden to Beverly st	999	10″	Clay	1,253.01	
	1,180	8″	Clay		2,273.79
Wilbraham road, State st., easterly	248	12″	Cem.	157.79	
State st. to Northampton ave.	1,451	2′-0″x3′-0″	Brick	6,373.06	
Northampton ave. to Bristol st	472	2′-6″x3′-9″	Brick		
	476	2′-4″x3′-6″	Brick		
	478	2′-2″x3′-3″	Brick		
	473	2′-0″x3′-0″	Brick	9,055.82	
	254	1′-10″x2′-9″	Brick		
	256	1′-8″x2′-6″	Brick		
Bristol st., easterly	263	20″	Clay		
	405	12″	Clay	947.00	
*Watershop Pond, westerly	204	24″	Clay		
	318	20″	Clay	836.60	
					17,370.27
Wilcox st., Water st., easterly	548	15″	Cem.		
	327	12″	Cem.	1,000.75	
Water st., westerly	463	12″	Cem.	313.82	
					1,314.57
Willard ave., State st., northerly	282	18″	Clay		
	300	15″	Clay	785.26	
	241	12″	Clay		
Shattuck ave., southerly	215	8″	Clay	....	
					785.26

* Surface drainage only.

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SEWER SYSTEM.—*Concluded.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
William st., Water to Main st.	875	12″	Cem.	$918.26	
	32	12″	Clay	125.28	
Main to Dale st.	351	12″	Clay	931.32	
	311	10″	Clay		
Water st., westerly	76	15″	Cem.	459.79	
	425	12″	Cem.		
					$2,434.65
Willow st., Cross to State st.	413	12″	Clay	791.42	
Cross to Park st.	265	12″	Clay	378.17	
Union to Park st.	216	18″	Cem.	325.32	
Union st. to Hubbard ave.	219	10″	Clay	204.39	
					1,699.30
Wilmont st., Dickinson to Ranney st.	349	18″	Clay		
	450	15″	Clay		1,557.40
	386	12″	Clay		
Winchester st.	424	12″	Clay		357.96
Windsor st., Knox st., westerly	308	12″	Clay		560.76
	266	10″	Clay		
Winter st., Chestnut st., easterly	212	20″	Clay		986.83
Winthrop st., Main st., easterly	52	18″	Cem.	220.81	
	141	15″	Cem.		
	310	15″	Clay	1,045.76	
	230	12″	Clay		
					1,266.57
Wolcott st., Armory st., northerly	220	10″	Clay	....	
	206	10″	Clay	192.49	
Liberty st., northerly	138	10″	Clay	214.59	
					407.08
***Woodbine ave.**, Mill river intercepting sewer to Baxter ave.	1,071	10″	Clay		993.00
Woodside terrace, Belmont ave., northerly	451	10″	Clay	373.16	
Forest Park ave., northerly	307	10″	Clay	22.04	
					395.20
Woodworth ave., State st., southerly	199	12″	Clay		614.25
	131	10″	Clay		
Worcester ave., Plainfield st. to Fisk ave.	854	15″	Cem.		295.09

* Sanitary sewer.

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SEWER SYSTEM —*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Worcester st., I. O., Myrtle to Chestnut st	4	24″	Clay	$945.80	
	290	20″	Clay		
	382	2′-0″x3′-0″	Brick	1,283.00	
Chestnut to Holly st	670	1′-10″x2′-9″	Brick	2,398.09	
Oak st., easterly	275	12″	Clay	542.93	
	212	10″	Clay		
Pine st., easterly to Lyons st	546	20″	Clay	2,639.71	
	224	18″	Clay		
	601	15″	Clay		
	249	10″	Clay		
					$7,809.53
Worthington st., submerged outlet	194	24″	Wood	1,883.04	
	22	24″	C. Iron	176.25	
*Conn. river to Main st	1,038	5′-7″x7′-0″	Brick	33,510.28	
*Main to Dwight st	821	5′-4″x7′-0″	Brick		
Dwight to Garden brook	566	4′-0″x6′-0″	Brick		
Garden brook to Spring st	738	4′-3″ cir.	Brick	4,361.35	
Spring st., branch north	35	5′-0″ cir.	Brick		
Spring st., branch south	47	2′-0″x3′-0″	Brick		
Spring st., easterly	40	18″	Cem.	614.35	
	242	15″	Cem.		
	251	12″	Cem.		
Autumn st., westerly	113	12″	Cem.	118.78	
near Sacketts ave	145	10″	Cem.	111.47	
West brook, easterly	329	15″	Clay	1,110.54	
	217	12″	Clay		
West brook to Autumn st	231	15″	Clay	727.56	
Sacketts ave., westerly	98	12″	Clay	207.28	
Sacketts to Kibbe ave	337	12″	Cem.	335.37	
Kibbe ave. to Federal st	794	15″	Clay	826.90	
Kibbe hollow, westerly to Magazine st	167	18″	Clay	381.28	
Kibbe hollow to Bowdoin st	833	2′-2″ cir.	Con.	3,609.56	
near Magazine to Bowdoin st	125	2′-8″x4′-0″	Con.	21,193.17	
	123	2′-8″x4′-0″	Brick		
	354	2′-1″x3′-1½″	Brick		
Bowdoin st. to St. James ave	359	3′-4″x7′-2″	Brick		
	1,307	3′-4″x6′-9″	Brick		
					69,167.18
X Court, Dickinson st., westerly and southerly	34	10″	Clay	84.24	
	192	10″	Clay	19.05	
					103.29

* Elliptical.

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SEWER SYSTEM.—*Concluded.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Yale st., Dartmouth to Princeton st.	350	24″	Clay		
	359	18″	Clay	$1,770.13	
	233	15″	Clay		
Princeton st., northerly	712	12″	Clay	524.54	
					$2,294.67
York st.	1,203	7′-0″ cir.	Brick		13,988.16
Totals	792,540				$1,830,974.28

NOTE.—Sewers constructed by the city on private land or ways are indexed under Private ways.

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RECAPITULATION BY SIZES.

DESCRIPTION	Length in Feet	Sizes	Material
Segmental.....	93	6′- 0″x4′- 3″	Brick and cem. mortar.
Elliptical shaped.....	1,038	5′- 7″x7′- 0″	" " "
" "	821	5′- 4″x7′- 0″	" " "
" "	1,095	4′-10″x7′- 3″	" " "
" "	1,949	4′- 8″x7′- 0″	" " "
" "	1,170	4′- 6″x6′- 9″	" " "
" "	1,040	4′- 4″x6′- 6″	" " "
" "	2,340	4′- 2″x6′- 3″	" " "
" "	1,746	3′- 8″x5′- 6″	" " "
" "	830	3′- 4″x5′- 0″	" " "
" "	536	3′- 2″x4′- 9″	" " "
" "	819	3′- 0″x4′- 6″	" " "
" "	1,093	2′-10″x4′- 3″	" " "
" "	2,506	2′- 8″x4′- 0″	" " "
" "	5,778	2′- 2″x3′- 3″	" " "
" "	417	2′- 0″x3′- 0″	" " "
Egg shaped.....	566	4′- 0″x6′- 0″	" " "
" "	1,131	3′-10″x5′- 9″	" " "
" "	1,074	3′- 8″x5′- 6″	" " "
" "	3,512	3′- 6″x5′- 3″	" " "
" "	359	3′- 4″x7′- 2″	" " "
" "	1,307	3′- 4″x6′- 9″	" " "
" "	8,787	3′- 4″x5′- 0″	" " "
" "	1,056	3′- 2″x4′- 9″	" " "
" "	2,877	3′- 0″x4′- 6″	" " "
" "	953	2′-10″x4′- 3″	" " "
" "	364	2′- 9″x4′- 1½″	" " "
" "	2,391	2′- 8″x4′- 0″	" " "
" "	4,818	2′- 6″x3′- 9″	" " "
" "	498	2′- 6″x3′- 6″	" " "
" "	150	2′- 5″x3′- 7½″	" " "
" "	8,573	2′- 4″x3′- 6″	" " "
" "	8,688	2′- 2″x3′- 3″	" " "
" "	603	2′- 1″x3′- 1½″	" " "
" "	18,874	2′- 0″x3′- 0″	" " "
" "	4,921	1′-11″x2′- 9″	" " "
" "	2,432	1′- 8″x2′- 6″	" " "
" "	917	1′- 6″x2′- 3″	" " "
" "	669	1′- 4″x2′- 0″	" " "
Circular.....	3,017	7′-0″	" " "
"	3,019	6′-6″	" " "
"	1,330	6′-0″	" " "
"	1,743	5′-9″	" " "
"	3,842	5′-6″	" " "
"	949	5′-3″	" " "
"	2,257	5′-0″	" " "
"	3,274	4′-7½″	" " "
"	1,762	4′-6″	" " "

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RECAPITULATION BY SIZES.—*Continued.*

DESCRIPTION	Length in Feet	Sizes	Material
Circular	3,362	4′-3″	Brick and cem. mortar.
"	952	4′-1″	" " "
"	2,399	4′-0″	" " "
"	385	3′-9″	" " "
"	677	3′-6″	" " "
"	2,209	3′-3″	" " "
"	2,549	3′-0″	" " "
"	2,072	2′-8″	" " "
"	1,520	2′-0″	" " "
"	190	1′-6″	" " "
Elliptical	416	2′-10″x4′- 3″	Brick-concrete.
"	245	3′- 0″x4′- 6″	" "
Segmental	60	5′- 0″x2′- 1″	Concrete.
Elliptical	385	4′-10″x7′- 3″	"
"	1,085	4′- 2″x6′- 3″	"
"	928	3′- 2″x4′- 9″	"
"	612	2′-10″x4′- 5″	"
"	3,344	2′-10″x4′- 3″	"
"	1,178	2′- 8″x4′- 0″	"
"	1,934	2′- 4″x3′- 6″	"
"	41	1′-10″x2′- 9″	"
Egg shaped	477	2′- 8″x4′- 0″	"
"	1,365	2′- 6″x3′- 9″	"
"	191	2′- 4″x3′- 6″	"
"	4,717	2′- 2″x3′- 3″	"
"	1,994	2′- 0″x3′- 0″	"
"	349	1′- 8″x2′- 6″	"
Circular	1,083	5′-0″	"
"	1,004	4′-9″	"
"	478	4′-3″	"
"	684	4′-0″	"
"	2,365	3′-9″	"
"	1,549	3′-0″	"
"	1,940	2′-8″	"
"	760	2′-6″	"
"	1,484	2′-3″	"
"	1,139	2′-2″	"
"	1,440	2′-0″	"
"	40,106	24″	Clay pipe.
"	30,817	20″	" "
"	46,027	18″	" "
"	78,690	15″	" "
"	150,448	12″	" "
"	146,809	10″	" "
"	14,474	8″	" "
"	287	6″	" "
"	20,904	18″	Cement pipe.
"	31,637	15″	" "
"	55,613	12″	" "
"	4,278	10″	" "

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RECAPITULATION BY SIZES.—*Concluded.*

DESCRIPTION	Length in Feet	Sizes	Material
Circular	651	8″	Cement pipe.
"	120	24″	Cast-iron pipe.
"	28	18″	" "
"	726	24″	Wood pipe.
"	290	18″	" "
"	170	3′- 0″	Segment block.
Miscellaneous shapes	919		Brick and cem. mortar.
Total	792,540		

GENERAL CLASSIFICATION, 1917.

	Feet	Miles
Brick	137,218	25.988
Brick-concrete	661	.125
Concrete	32,586	6.172
Clay pipe	507,658	96.147
Cement pipe	113,083	21.417
Cast-iron pipe	148	.028
Wood pipe	1,016	.193
Segment block	170	.032
Total	792,540	150.102

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COLLECTION.

Mains (Everything but House and Catch Basin Connections).

		For sewage only.	For sewage and surface water.	For surface water only.
1.	Lineal feet brick,		137,218	
2.	" " concrete,		32,817	430
3.	" " segment block,			170
4.	" " pipe,	24,552	591,413	5,940
5.	" " pipe extended during year,	5,347	15,090	1,146
6.	Number of inverted siphons,		1	
8.	Method of flushing: By connections with the water system.			
9.	Method of cleaning: By scrapers and flushing.			
11.	Number of direct connections with water mains for flushing,	14	625	
12.	Number of flushings of entire system during year,		26	
13.	Cost of flushing, per mile,		$27.54	
14.	Cost of cleaning, per mile,		$30.09	
17.	Number of storm overflows,		16	
18.	Method of ventilation: By manholes and well holes and through house stacks.			

HOUSE CONNECTIONS.

1.	By whom made:	By Sewer Department as far as street line.
2.	Sizes,	6" and 8"
3.	Number made during year,	401
4.	Lineal feet laid during year,	About 11,550

GENERAL.

Total cost of collecting mains to date, ... $1,830,974.28
Proportion of cost of system paid for by abutters in fees, . . 40%+

Methods of assessing abutters and rate of assessment:—

Entrance fee of fifty (50) dollars for dwelling houses.

For buildings used for business purposes two (2) cents per square foot of area covered by the building for the two lower stories, and an additional charge of one half (½) cent per square foot of area covered by the building for each additional story.

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SUMMARY OF SEWERAGE STATISTICS.

(In form recommended by Sanitary Section of Boston Society Civil Engineers.)

For the Year Ending December 1, 1917.

SPRINGFIELD, MASSACHUSETTS.

GENERAL.

Population by Assessors' Estimate,		120,000
Total area of city or town,		33.1 square miles
Area served by sewerage system,		10.1 square miles
Collection system,	For sewage only,	4.65 miles
	For sewage and surface water,	144.213 miles
	For surface water only,	1.238 miles

Method of disposal,—Gravity flow to Connecticut River.

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REPORT

OF

ASHES, RUBBISH AND GARBAGE DIVISION

FOR FISCAL YEAR ENDING NOVEMBER 30, 1917.

Mr. F. H. Clark, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—I submit herewith in accordance with your request the annual report of the Division of Ashes, Garbage and Waste Removal for the fiscal year ending November 30, 1917.

EXPENSE.

	Total Cost of Collection	Amount Collected	Unit Cost
Ashes,.....	$88,241.49	33,197 loads	$3.41
Rubbish,.....	24,986.49	5,943 loads	4.20
Garbage,.....	44,957.03	11,537.8 tons	3.90

ASHES COLLECTION.

The expense for the collection of ashes has been increased about twenty-one (21) per cent over that of the preceding year. This has been due in a large measure to the increased cost of labor, together with the several miles of extended territory in which ashes are collected. Collections are now made in East Springfield, on State street to and including a part of Berkshire avenue, one half mile further on White street than last year, and also a part of the Franconia section.

Since the beginning of 1913, the department has made a continuous effort to induce the householder to separate household waste from ashes, and the requirement that these materials be collected on separate days has done much toward securing the desired end. Objections at first on

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the part of certain householders were made, as it was stated that this method necessitated an increased number of receptacles. This, of course, is provided for in the rules governing collections, for if the rubbish is properly tied in bundles or placed in burlap bags, our men are able to remove the same without any annoyance due to the littering of the streets.

The requirement introduced in the early part of 1914, that all waste collectors be provided with uniforms, has met with the general approval of the public. During the three years that this requirement has been in effect, it has been amply demonstrated that the work has been benefited through an improvement in the morale of the force.

It has been frequently stated that the service would be much improved if the householder would provide iron cans in place of wooden barrels, which are oftentimes in danger of falling to pieces when being removed by our collectors.

RUBBISH COLLECTORS.

There has been an increase of about twelve (12) per cent in the expense for the collection of rubbish over that of the preceding year. This has been due in a large measure to the increased cost of labor, together with the long hauls found necessary to cover the rapidly growing outlying districts. The burning of paper and rubbish at the city dumps has been eliminated, as the waste is now delivered at the Logan street incinerator which was completed early in December. After such salvage as the contractor may be able to procure, the remaining portions are consumed by fire in the latest type of furnace built in this incinerator, same having a capacity of about eight tons daily.

GARBAGE COLLECTIONS.

Notwithstanding the difficulties encountered in connection with the disposal problem, together with wage increases, the unit cost of collection per ton has remained practically the same as last year, a fact which I wish especially to call to your attention. Early in August, the department adopted the system of selling garbage to farmers to be fed to swine. This method of disposal has proved to be very satisfactory, especially so where the farmers are able to meet the city team at a convenient point to exchange their empty wagon for a loaded one, making long hauls less frequent. During the last four months of the fiscal year ending November 30, the department has been able to sell 120,655 cubic feet of garbage at two cents per cubic foot. Since the beginning of 1917 the division has made a continuous effort to persuade householders to provide

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suitable receptacles for garbage. It is earnestly hoped that the householders will come to appreciate their responsibility in the matter, and in the future refrain from putting their garbage in all varieties of receptacles, such as cardboard boxes, tubs, beer kegs, baskets, etc., frequently making it necessary for the collector to remove the scattered garbage from the ground.

ACKNOWLEDGMENTS.

I wish to thank all those who have in any way contributed to the measure of success attained by the division. Finally, I desire to thank you for the many courtesies extended to me during the year.

Respectfully submitted,

E. G. BARNES,

Deputy Superintendent of Ashes, Rubbish and Garbage Division.

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REPORT

OF

STREET LIGHTING DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917.

Mr. F. H. Clark, Superintendent of Streets and Engineering.

DEAR SIR:—During the year ending November 30, 1917, the Street Lighting Division has installed seventy-two arc lamps and thirty-three incandescents. Nineteen incandescents were replaced by arc lamps. Twenty-four of the arc lamps and eighteen of the incandescents were ordered previous to 1917.

The lighting of several important thoroughfares has been rearranged and improved, among them being Pearl street for its entire length; Worthington street, east of Armory; Longhill street from Cherryvale avenue to Pecousic avenue; Springfield street from Chestnut street to Hamburg street and short sections of other streets.

Considerable improvement has also been made in the lighting of many streets in the residential districts. In carrying out the work of the division, we have made constant study of the present and probable future needs of the city and have kept in touch with the advance in the science and art of street lighting. Each year sees us nearer to reaching our ideal. While some individual streets are not as yet as well lighted as we plan to have them, still, taken as a whole, the street lighting of Springfield will compare favorably with that of any American city.

COST.

The cost of street lighting must necessarily increase, due partly to the growth of the city and partly to the raising of the standards of street lighting which has taken place throughout the entire country in recent years. Springfield has fully kept pace with these new standards and yet the cost of the street lighting has not increased during the past five years as rapidly as previously and the increase of 1917 over 1916 is only about three fourths as great as the average for the preceding twenty years.

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WORK FOR 1918.

The two greatest problems to be met in 1918 are, first, the newer residential streets, several of which at present have not sufficient lighting; second, those streets which are to be altered or widened. In case of the latter, it is important to place a sufficient number of lamps at the time the street work is done to avoid the necessity of tearing up expensive pavements for later additions.

Economy can well be practiced during the coming year, but it is important that it be done by exercising the greatest care in discriminating between what is immediately necessary and what can be delayed, and by so arranging all new work as to have each new lamp do the maximum amount of work.

STREET LIGHTING DATA.

Number of arcs connected overhead, November 30, 1917,.....	492
Number of arcs connected underground, November 30, 1917,.....	1,298
Number of inverted arcs, November 30, 1917,.....	55
Number of incandescents connected overhead, November 30, 1917,	356
Number of incandescents connected underground, November 30, 1917,.....	91
Price: Pendant arcs,.....	$70.00
Inverted arcs,.....	75.00
Overhead incandescents,.....	15.00
Underground incandescents,.....	20.00

Type of arc: 5 ampere, 400-watt General Electric Magnetite arc with high efficiency electrodes in medium Alba globes.

Inverted arcs: 5 ampere, 400-watt General Electric Magnetite arc in medium Alabaster polycase globe.

Type of incandescents: 80-watt series Tungstens with radial wave reflectors.

Hours per year: 4,000 for all lamps.

Current generated: Partly by Brush Arc machines; partly by rectifiers.

Inspection: Every light inspected twice each night by regular inspectors, besides police reports.

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EXPENDITURES YEAR BY YEAR.

		Per Cent Increase Over Preceding Year-
1908	$86,243.84	3.38
1909	90,291.12	4.69
1910	96,908.49	7.32
1911	104,246.23	7.57
1912	111,485.16	6.94
1913	123,358.47	2.08*
1914	117,555.11†	3.25
1915	122,602.70	4.29
1916	132,645.06	8.19
1917	137,896.60	3.97

*13 months' bills were paid in 1913 and this was taken into consideration in figuring percentage of increase.

†In 1914 the salary of the Deputy Superintendent was charged to administration but in this table it is added to the street lighting account for purposes of comparison.

Respectfully submitted,

WM. E. HODGE,

Deputy Superintendent Street Lighting.

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REPORT

OF

FORESTRY DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917.

Mr. F. H. Clark, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—I have the honor to submit a report of the work performed by the Forestry Division for the fiscal year ending November 30, 1917.

The division has completely covered the section north of the Boston and Albany railroad to the Chicopee line, performing all needed prunings, chaining and minor tree surgery operations. In addition we have attended to numerous special calls for similar classes of work in various parts of the city when brought to our attention.

A tree census has been completed during the year, the totals of which are shown in the following tables. Street trees are those standing wholly or in part within the limits of a public highway, private property trees being any trees standing within twenty feet of the public highway bounds, which by state law may have public funds expended in their care and maintenance after securing the written consent of the owner of the property.

Street trees,		24,902
Private property trees,		5,605
Trees in school yards,	542	
Trees in small parks,	886	
	—	1,428
		$31,935

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The varieties and number of trees recorded are as follows:—

Ailantus,	7	Hackberry,	8
Arbor Vitæ,	3	Hickory,	45
Apple,	46	Hemlock,	1
Ash,	225	Kentucky Yellow Wood,	1
Basswood,	160	Locust,	63
Beech,	4	Maple,	15,158
Birch,	15	Mountain Ash	24
Box Elder,	178	Mulberry,	12
Cedar,	3	Oak,	1,309
Buckeye,	85	Osage Orange,	2
Butternut,	16	Pear,	4
Catalpa,	91	Pine,	161
Cherry,	13	Poplar,	1,162
Chestnut,	16	Spruce,	58
Elm,	5,890	Sycamore,	23
Flowering Crab,	23	Tulip tree,	14
Gingko,	13	Willow,	55
Fir,	12	Miscellaneous Evergreen,	2
			24,902

The nursery has been given needed care and the result as shown in the growth and vigor of the nursery stock has been very satisfactory. The inventory of stock in the nursery shows:—

	1916.	1917.
Total number of trees,	9,502	22,682
Value,	$710.10	$3,857.96

Our records show that during the year there have been 1,246 calls for work, inspection, information, or advice. Of these calls 799 have been completed and 447 will receive attention at the proper time for performing the work required.

In line with the recommendation in my last report that the division care for defects in sidewalks caused by tree growth, we assumed the work this season. All tar concrete and brick walks in the section south of State street, west of Maple street, and south to Mill river have been inspected and where needed repaired.

There has been an unusual amount of supervision needed in sidewalk construction because of the large amount of old walks being replaced and the conditions found in many cases necessitate severe root pruning and especial care in dressing and protecting the wounds thus made.

The damage caused by insects during the past year has been less than the usual amount. The elm tree beetle was kept in complete control as well as other of the more common insect pests.

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The inspection for brown tail and gypsy moth infestations was completed in March, 1917. No gypsy moths were found, but a scattered and general infestation of brown tail moths still exists, presumably due partially to reinfestations from adjacent townships where inspections are not as thorough as might be desired.

Two cases of injury caused by escaping gas have been noted, three trees being involved. Occasional cases of electric light wires hitting branches of public shade trees have come to my notice, the Electric Light Company in all cases being very prompt in remedying the condition.

Late in the fall the division assumed the supervision of the removal of snow from the public school walks. Additional one-horse snowplows and other equipment have been obtained and plans made for this work.

The small Ford truck transferred to the division in the spring has been of much service.

Your hearty co-operation and interest in the work of the past year have served to make my duties a privilege and a pleasure.

Respectfully submitted,

J. ALDEN DAVIS,
Deputy Superintendent of Forestry.

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DEPARTMENT OF CHARITIES.

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BOARD OF

OVERSEERS OF THE POOR

FOR 1917.

HON. FRANK E. STACY, *Chairman*

ARTHUR A. CALL,	*Term expires April 1, 1918.*
WILLIAM J. LEONARD, M.D.,	*Term expires April 1, 1918.*
WILLIAM R. THACKER,	*Term expires April 1, 1919.*
HENRY P. NORRIS,	*Term expires April 1, 1920.*

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REPORT

OF THE

DEPARTMENT OF CHARITIES

FOR THE

YEAR ENDING NOVEMBER 30, 1917.

To the City Council:—

The appropriation for the department was as follows:—

Land, Buildings and Capital Outlay,	$500.00
General Administration,	11,110.34
Almshouse,	42,112.50
Wayfarers' Lodge,	4,483.00
Outside Relief,	42,860.00
Collections transferred to our credit,	3,750.62
Total resources,	$104,816.46

The total expenditure was $100,150.34, balance unexpended, $4,666.12. The collections amounted to $43,905.28, which deducted from the total expenditure makes the actual cost of the department for the past year $56,245.06, being $9,301.03 less than that of the preceding year. There was an increase of $7,255.41 in the total expenditure and an increase of $16,556.44 in the collections.

Unless conditions change there must be a further increase in expenditure. The steady growth in population requires this and the ever increasing price of commodities adds to the cost of supporting the poor. In the disbursement of public charity more is being demanded from year to year by legislative enactments.

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OUTDOOR RELIEF.

The expenditure for 1916 and 1917 was as follows:—

	1916	1917
Disbursed direct to poor by Agent,	$32,489.87	$35,715.67
Paid to hospitals in Springfield,	4,576.92	4,882.44
Paid to cities and towns for Springfield poor,	3,034.48	2,572.51
Paid to state institutions,	489.73	518.12
	$40,591.00	$43,688.74

A comparison of the expenditures in the above table shows an increase in all the items except the amount paid to cities and towns, which is less than in the preceding year. This is in part due to the change in the settlement laws (Chapter 669, Acts of 1911), the city being no longer liable for the support of persons who have been absent five consecutive years. The increase in the other items is normal and must be expected in the future. Practically no assistance has been required the past year on account of lack of employment; all who desired it have had work with good wages. It would seem, however, that in some instances it has not been beneficial, as increased earnings have lead to excesses, and abandonment of wife and children, an evil with which the Overseers of the Poor have always had to contend, has increased to an unusual extent. We are informed that this is true throughout the State. It has been our policy to prosecute these cases under the Uniform Desertion Act (Chapter 456, Acts of 1911). A person deserting his family may be brought from another state, sent to a jail or reformatory and his family allowed 50 cents per day while he is employed therein. While it is manifestly better that he should be otherwise employed at higher wages, this course seems to be the only one to follow in certain cases. The proper solution is a problem in many instances. We wish to acknowledge the assistance given by the Police Department, and, in particular, the co-operation of the Judge of the Police Court, who, by his patient and thorough investigation of the circumstances of these cases, has been able to decide them wisely. The total number of persons receiving outdoor relief was 2,012 as against 2,320 the preceding year; see annexed tables giving detailed statement of expenditures.

Aid to the amount of $16,414.39 was given to mothers with dependent children, an increase of only $466.61. At the beginning of the year there were sixty families receiving this aid, at the end, there were forty-nine families. The oversight of this relief requires considerable attention. The law provides that the family shall be visited once in three months and

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other visits are frequently necessary owing to conditions which arise from time to time. This work has been looked after by our Welfare Nurse. Her services have been of special value in this particular line.

HOSPITALS

Expenses in the various hospitals in Springfield were as follows:—

Mercy Hospital,.....	$2,566.41
Springfield Hospital,.....	1,994.00
Wesson Memorial Hospital,.....	232.17
Home Hospital,.....	89.86
	$4,882.44

The above expense was incurred for 190 persons. The State has reimbursed for persons having no settlement at the rate of $8.00 per week, besides X-ray and operating room charges. After January 1, 1918, a flat rate of $10.00 per week will be allowed by the State. The rate charged in the hospital department of the State Infirmary and State Farm was increased to $7.00 per week April 1, 1917, being the same amount as allowed by the State for hospital care at the Almshouse Hospital in this city

ALMSHOUSE.

There were 443 inmates during the year. The daily average was 124, exactly the same as last year. The total cost at the Almshouse was $44,337.91. The average weekly cost was $6.28. The same causes that have increased the expense of the outdoor poor have operated to increase the expense of the indoor poor. There was an increased expense for maintenance (which includes supplies of all nature) of $4,431.66, also an increase in salaries of $1,552.45. This was partially offset by a decreased expenditure for repairs, the same being $1,491.72 less. Arrangements and an appropriation of $500 were made to enable us to exchange adjoining land with the Messrs. Fitzgerald. The terms were agreed upon, but as yet the transaction has not been completed. The City Physician made 346 visits to the Almshouse during the year.

We wish again to call attention to an unsatisfactory situation which frequently arises. We are obliged to provide for people suffering from pulmonary tuberculosis as there is not always room in the Isolation Hospital. This is contrary to the law and ought not to be continued. Adequate room at the Isolation Hospital should be provided without delay for such cases.

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The products of the farm as returned by the Master were as follows:—

60	bushels peas at $1.50,	$90.00
40	bushels spinach at 50 cents,	20.00
40	bushels string beans at 75 cents,	30.00
30	bushels shell beans at $1,	30.00
15	bushels lima beans at $1.50,	22.50
16	bushels summer squash at 70 cents,	11.20
40	bushels tomatoes at $1,	40.00
48	bushels beets at $1,	48.00
622	bushels potatoes at $1.50,	933.00
200	bushels corn on the cob at $1,	200.00
	Sweet corn,	40.00
	Ensilage in silo,	175.00
2,500	pounds Hubbard squash at 2 cents,	50.00
500	cabbages at 4 cents,	20.00
39,585	pounds of hay at $20 per ton,	395.85
9,218	pounds carrots at $20 per ton,	92.18
70	bushels onions at $1.50,	105.00
40	bushels parsnips at $1.50,	60.00
41,210	quarts milk at 6 cents,	2,472.60
3,469	pounds pork sold,	524.47
	Beef sold,	455.00
	Bones, tallow, etc., sold,	78.95
33,510	pounds mangles at $20 per ton,	335.10
		$6,228.85

WAYFARERS' LODGE.

The old lodge which has been in use since 1893 and has housed thousands of tramps was demolished in June to make way for the Mill Street Extension. A new lodge has been erected near the Forestry Building and will be ready for occupancy early in January, 1918. This new building is commodious and provides ample accommodations both for the tramps and for the keeper and family. It is of fireproof construction with concrete floors and can be easily kept in a sanitary condition. The old lodge was open until June 1, 1917, and the number of tramps lodged from December 1, 1916, to June 1, 1917, was 1,269. At present there is only a limited supply of wood available and prices have advanced.

The financial statement is as follows:—

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RECEIPTS.

Appropriation,	$4,483.00		
Transfers,	53.75		
		$4,536.75	
Wood on hand December 1, 1916,		337.06	
Cash sales,		1,971.53	
Accounts receivable,		14.50	
			$6,859.84
Wood and supplies on hand December 1, 1917			200.00
			$7,059.84.

EXPENDITURES.

Salary of keeper and teamster,	$1,117.57		
Paid for wood,	1,243.46		
Provisions, supplies, etc.,	202.72		
Coal,	39.97		
Hay and grain,	80.56		
Gasoline,	29.05		
Miscellaneous,	59.13		
Filing saws,	13.40		
Shoeing,	5.20		
Light,	36.54		
New equipment,	12.80		
		$2,840.40	
Wood delivered to the poor,		232.00	
			$3,072.40
Balance unexpended from appropriation,			3,987.44
			$7,059.84

TAG DAY.

By the provisions of Chapter 188, Acts of 1916, the Overseers of the Poor are authorized to license charitable organizations to sell flags, badges, medals, buttons, flowers, souvenirs, and similar small articles on the streets, the proceeds of the same to be used for a charitable purpose. During the past year we have issued ten licenses in accordance with the above Act.

BOARD OF HEALTH CASES.

This department is by law required to determine the place of settlement of persons provided for by the Board of Health. We have during the past year reported on 337 cases.

Respectfully submitted,

ARTHUR A. CALL,
WM. R. THACKER,
HENRY P. NORRIS,
Overseers of the Poor.

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STATISTICS

RECEIPTS AND TRANSFERS.

	Receipts.	Transfers.	
From appropriation,			$101,065.84
Various cities and towns:—			
Almshouse care, $1,806.85			
Outside relief, 4,452.11			
	$6,258.96		
The Commonwealth, for temporary aid, care of sick and transportation:—			
Almshouse care, $3,637.46			
Outside relief, 27,164.36			
	30,801.82		
Isolation Hospital, for lighting, heating, ambulance service and ice,		$3,664.59	
Soldiers' Relief, wood,		53.75	
Soldiers' Relief, for care of sick at hospitals,		32.28	
			3,750.62
Individuals for care at hospitals and aid reimbursed:—			
Almshouse care, $3,317.27			
Outside relief 188.45			
	3,505.72		
Sale of farm products,	1,367.25		
Sale of wood,	1,971.53		
	$43,905.28		$104,816.46

EXPENDITURES.

For the support of persons at the Almshouse,	$44,337.91
Outdoor relief, not including hospital expenses,	38,288.18
The support of patients in the local hospitals,	4,882.44
The State Infirmary,	14.00
The State Farm,	255.80
The Massachusetts Hospital School	208.57
The Massachusetts General Hospital,	39.75

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Salaries	$8,646.24
Miscellaneous expenses,	637.05
Wayfarers' Lodge,	2,840.40
	$100;150.34
Balance unexpended,	4,666.12
	*$104,816.46

*$1,200.00 greater in Treasurer's report represents amount advanced for office expenses and returned to the Treasurer at the end of the year.

ALMSHOUSE.

Number of persons in Almshouse, December 1, 1916,	118
Number admitted during the year,	325
Total number of inmates,	443
Number discharged,	327
Number remaining, November 30, 1917,	116
Average number of inmates,	124

OUTDOOR RELIEF.

The total number aided was:—

Having a settlement in the city,	837
Having a settlement elsewhere,	219
Having no settlement,	956
	2,012

The number of families aided was:—

Having a settlement in the city,	252
Having a settlement elsewhere,	70
Having no settlement,	336
	658

The number of families aided for the first time was:—

Having a settlement in the city,	70
Having a settlement elsewhere,	38
Having no settlement,	215
	323

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The number of persons aided the first time was:—

Having a settlement in the city,	210
Having a settlement elsewhere,	117
Having no settlement,	457
	784

EXPENSES OF OUTDOOR RELIEF.

(Including hospital aid.)

Persons having a settlement in the city,	$24,344.22
Persons having a settlement elsewhere,	3,530.62
Persons having no settlement,	15,813.90
	$43,688.74

The total number of persons aided during the year was 2,455.

Eighty-two persons have been sent to the State Infirmary at Tewksbury.

Twelve hundred sixty-nine tramps were lodged during the year.

One hundred twenty-six persons have been aided who were non-residents but had a settlement here.

Fifty-two notices were received from various cities and towns and the State, of aid rendered to persons whose settlement was claimed in this city.

The City Physician made 523 visits to the poor in their homes.

INVENTORY.

Almshouse:—	
Furniture, fixtures and farm tools,	$8,541.15
Provisions and supplies,	7,572.59
Horse, cows and other live stock,	2,863.00
Office furniture and fixtures,	606.53
Wayfarers' Lodge:—	
Wood,	200.00
Fixtures,	409.05
Horse and vehicles,	220.00
	$20,412.32

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STATEMENT OF EXPENDITURES IN 1916-1917.

Outdoor Relief.

	Cash.	Transportation.	Fuel.	Provisions.	Clothing.	Medicine and Medical Attendance, and Nursing.	Cities and Towns.	Burials.	State Infirmary, Tewksbury.	State Farm, Bridgewater.	Mass. Hospital School, Canton.	Springfield Hospital.	Mercy Hospital.	Wesson Hospital.	Home Hospital.	Massachusetts General Hospital.	Totals
December..	$743 50	$38 46	$396 07	$1,399 80	$115 80	$31 48	$515 64	$35 00	.....	.....	$52 00	.....	.....	$19 16	.....	.....	$3,346 91
January...	757 25	47 27	493 70	1,214 65	5 41	139 84	128 00	52 00	.....	$36 80	.....	$362 00	.....	27 15	.....	$8 25	3,267 32
February..	1,528 86	74 24	591 56	1,558 90	63 88	57 30	597 22	.....	.....	.....	51 43	222 25	.....	.....	.....	.....	4,694 21
March.....	1,272 05	53 07	417 77	1,318 18	75 10	53 03	.....	184 00	.....	.....	.....	847 25	$499 36	25 00	.....	.....	4,246 24
April.....	1,063 14	29 54	88 41	1,424 72	230 79	88 30	6 67	60 00	$14 00	36 00	.....	148 75	.....	10 00	.....	.....	3,195 32
May.....	1,286 43	32 69	37 64	1,160 33	67 01	114 30	258 93	80 00	.....	.....	.....	134 00	.....	.....	$59 86	.....	3,181 19
June.....	1,022 22	33 66	4 88	1,686 83	9 82	76 10	145 15	60 00	.....	.....	52 57	158 25	828 77	.....	.....	.....	4,078 25
July.....	1,015 00	58 87	.....	1,327 89	51 39	41 95	518 69	.....	.....	91 00	.....	198 25	.....	133 36	.....	36 50	3,467 90
August.....	1,204 08	36 66	.....	1,352 54	14 78	39 30	96 79	114 00	.....	.....	.....	69 00	523 08	12 50	.....	.....	3,461 73
September.	1,023 36	8 50	.....	1,393 97	109 26	113 31	.....	70 00	.....	.....	52 57	.....	.....	5 00	.....	.....	2,775 97
October....	1,035 04	50 41	38 81	1,309 79	130 05	136 75	21 59	75 00	.....	92 00	.....	108 00	.....	.....	30 00	.....	3,022 44
November.	1,116 00	70 43	344 32	1,820 64	47 79	256 80	284 83	39 00	.....	.....	.....	256 25	715 20	.....	.....	.....	4,951 26
	$13,016 93	$533 80	$2,413 16	$16,968 24	$921 09	$1,143 46	$2,572 51	$719 00	$14 00	$255 80	$208 57	$1,994 00	$2,566 41	$232 17	$89 86	$39 75	$43,688 74

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STATEMENT OF EXPENDITURES IN 1916–1917.— CONTINUED.

ALMSHOUSE.

	Maintenance.	Salaries.	Furniture and Repairs.	Totals.
December	$1,061 02	$1,146 35	$6 25	$2,213 62
January	2,297 44	1,193 97	106 27	3,597 68
February	2,135 48	1,072 24	42 95	3,250 67
March	1,736 29	1,203 30	122 67	3,062 26
April	1,416 00	1,098 76	344 65	2,859 41
May	2,304 23	1,264 54	34 38	3,603 15
June	2,586 78	1,173 41	208 80	3,913 99
July	1,505 57	1,254 89	377 73	3,138 19
August	2,918 48	1,195 48	165 82	4,279 78
September	1,644 51	1,232 88	47 95	2,924 84
October	6,082 48	1,290 33	712 38	8,085 19
November	2,096 92	1,261 06	51 15	3,409 13
	$27,785 20	$14,386 71	$2,216 00	$44,337 91

GENERAL ADMINISTRATION.

	Salaries.	Miscellaneous.	Totals.	Wayfarers' Lodge.
December	$727 34	$30 65	$757 99	$339 96
January	733 84	101 54	835 38	174 68
February	714 34	40 56	754 90	481 47
March	733 84	57 84	791 68	639 66
April	694 17	58 89	753 06	277 34
May	726 17	82 64	808 81	249 55
June	719 32	85 92	805 24	121 01
July	719 32	31 01	750 33	14 10
August	726 15	44 47	770 62	—
September	712 48	23 59	736 07	18 50
October	719 91	33 89	753 80	7 25
November	719 36	46 05	765 41	16 88
	$8,646 24	$637 05	$9,283 29	$2,840 40

TOTALS.

	Outdoor Relief.	Almshouse.	General Administration.	Wayfarers' Lodge.	Grand Totals.
December	$3,346 91	$2,213 62	$757 99	$339 96	$7,158 48
January	3,267 32	3,597 68	835 38	174 68	7,875 06
February	4,694 21	3,250 67	754 90	481 47	9,181 25
March	4,246 24	3,062 26	791 68	639 66	8,739 84
April	3,195 32	2,859 41	753 06	277 34	7,085 13
May	3,181 19	3,603 15	808 81	249 55	7,842 70
June	4,078 25	3,913 99	805 24	121 01	8,918 49
July	3,467 90	3,138 19	750 33	14 10	7,370 52
August	3,461 73	4,279 78	770 62	—	8,512 13
September	2,775 97	2,924 84	736 07	18 50	6,455 38
October	3,022 44	8,085 19	753 80	7 25	11,868 68
November	4,951 26	3,409 13	765 41	16 88	9,142 68
	$43,688 74	$44,337 91	$9,283 29	$2,840 40	$100,150 34

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REPORT

OF THE

COMMITTEE ON STATE AND MILITARY AID AND SOLDIERS' RELIEF

SPRINGFIELD, MASS., December 30, 1917.

To the City Council of the City of Springfield.

GENTLEMEN:—The Committee on State and Military Aid, having charge also of the expenditure of Soldiers' Relief, respectfully report for the fiscal year just closed the following disbursement in the several divisions of their work, in comparison with those for the three years immediately preceding:—

	1917	1916	1915	1914*
State Aid, Civil War,	$12,408.00	$13,575.00	$13,769.00	$13,866.00
State Aid, War with Spain,	264.00	198.00	176.00	133.00
Military Aid, Civil War,	60.00	220.00	100.00	
Military Aid, War with Spain,			70.00	110.00
Soldiers' Relief disbursed,	6,215.42	6,260.04	6,132.20	6,123.21
Salary and incidentals,	815.29	819.52	827.67	917.05

*13 months.

Recipients of State and Military Aid enrolled at close of the year:—

Veteran soldiers,	55	70	75	78
Widows,	116	129	126	132
Soldiers' wives,	1	1	1	3
Widowed mothers,	1	2	2	2
	173	202	204	215

Recipients of Soldiers' Relief during the year:—

Families,	22	20	28	21
Single persons,	65	73	75	79
	87	93	103	100

These figures show a considerable decrease in the number of State Aid recipients of the Civil and Spanish wars, while the amount paid to

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these classes in benefits during the year shows a drop from previous years of over $1,000. This decrease is due to a variety of causes, of which mention may be made of a more general use of the Soldiers' Homes by the veterans; the increased liberality in their pension allowances, in which widows also share; and inevitably the serious ravages of mortality. Yet still the vacant places are largely filled by those heretofore self-supporting, now brought to need assistance, while increasing age requires more generous expenditure in the care and help bestowed, while the universal price increase is felt here as elsewhere. A true spirit of economy has been practiced, to the end that public funds might not be unnecessarily disbursed, while on the other hand a spirit of sympathetic consideration has been maintained.

THE GERMAN WAR.

While our expenditures on behalf of the soldiers of former wars and their dependents have required the material assistance above indicated, our community is brought to face a condition of most serious import. The calling of a multitude of our young men to the national military and naval service left many a home without adequate bread-winners. Under an act of the state legislature, approved April 16, 1917, provision was made for State Aid in liberal measure, the execution of which was committed to the state and municipal officials representing the existing state aid service. Under this provision, the matter of obtaining the allowance of such aid through approval of the Commissioner at Boston, and making payment to the recipients, was assigned to the Secretary of this Committee as agent, and the matter was immediately taken up. While many difficulties have been encountered in dealing with cases not fully or adequately officially recorded, in general satisfactory results have been secured with pleasing promptness, so that the following payments to beneficiaries were made during the eight months of the fiscal year in which they were available:—

April,	$900.00
May,	930.00
June,	601.00
July,	667.49
August,	647.50
September,	670.00
October,	1,204.16
November,	1,458.66
Total,	$7,078.81

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The field of duty in this direction is not only already large, but is growing daily, and as the months go by, and more and more of our men are called to the colors, and the perplexities of our "war condition" increase, the responsibilities of this office must likewise increase. In many ways the office can be, and is being, useful and helpful to the families and dependents of our soldiers. The magnitude of the task so suddenly devolved upon the various executive departments of our country at the entrance of our country into the world war raging in Europe has necessarily caused much of delay and confusion in the handling of great masses of detail work. The interests of dependents, in their relations to the various national, state, and municipal provisions for their welfare, call for the best possible attention; to such attention our people are committed, by every impulse of a common humanity. I believe that it should be the duty of this department to give its experience and prestige in the fullest possible measure to all lines of effort by which the welfare of our soldiers' families and dependents can be advanced.

REPORT OF BURIAL AGENT

The duties of the Burial Agent have been performed in accordance with the laws, the established rules and customs pertaining to the subject. Assistance has been given in 14 cases during the fiscal year—8 soldiers and 6 widows, all Civil War cases. The total of allowances paid during the year amounted to $673.10. One minor change in the law was enacted, providing that an allowance may be granted in case the total expense of the burial does not exceed $110.00, as against a maximum of $100.00 as previously provided.

Respectfully submitted for the Committee,

JAMES L. BOWEN,
Secretary and Burial Agent.

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REPORT

OF THE

MILITARY RELIEF COMMISSION

SPRINGFIELD, MASS., January 8, 1918.

To the Honorable City Council of the City of Springfield, Mass.

GENTLEMEN:—We respectfully submit the following statement of receipts and disbursements of the Military Relief Commission for the year 1917.

Received from E. T. Tifft, Treas. 1917.			*Paid to Jas. L. Bowen, State Agt.*		
April 28th,	Cash,	$1,500	April 28th,	Cash,	$1,000.00
May 24th,	"	1,500	May 24th,	"	1,500.00
July 16th,	"	1,500	July 16th,	"	1,000.00
Aug. 21st,	"	1,000	Aug. 21st,	"	1,000.00
Oct. 17th,	"	1,000	Oct. 17th,	"	1,000.00
Nov. 10th,	"	1,000	Nov. 16th,	"	1,000.00
Nov. 26th,	"	700	Nov. 26th,	"	700.00
			Sundry dates to dependents for rent,		442.25
			Sundry dates to dependents for aid,		311.95
			Oct. 29th advanced to Officer's wife against husband's delayed pay, to be returned to Com.		100.00
			Dec. 1st, cash on hand,		145.80
		$8,200.00			$8,200.00

The policy of the Commission has been to render urgent temporary said to soldiers' dependents and as soon as possible turn over all applicans to James L. Bowen, State Agent for Soldiers' Aid. Of the amount disbursed $7,200 was turned over to Mr. Bowen and $854.20 distributed to

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dependents; the latter amount involved 63 different payments to 26 applicants, vouchers for each one of which are on file.

EMBURY P. CLARK, *Chairman.*
J. K. DEXTER, *Treasurer,*
TIMOTHY J. COLLINS,
Military Relief Commission.

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REPORT

OF THE

SUPERVISOR OF SOLDIERS' AND SAILORS' GRAVES

SPRINGFIELD, MASS., November 13, 1917.

To His Honor, the Mayor, and the City Council of the City of Springfield.

GENTLEMEN:—I would respectfully submit the following report. Total amount of money expended in the several cemeteries is as follows:—

Springfield Cemetery,	$450.00
St. Michael's Cemetery,	90.00
St. Benedict's Cemetery,	50.00
St. Matthew's Cemetery,	15.00
St. Aloysius' Cemetery,	6.00
Cherry Street Cemetery,	4.00
Salary of Supervisor,	200.00
Total,	$815.00

In the performance of the duties of this office, I have received the hearty co-operation of the superintendents and caretakers of the several cemeteries, and I think the graves of the soldiers and sailors have received good care during the present year.

Six Government headstones have been received and ten more ordered.

I have placed about fifty name plates where there was nothing to show who was buried there.

I would respectfully call your attention to the deplorable condition of Cherry Street Cemetery. It is grown up to brush and briars and receives no care. There are three Revolutionary soldiers and one Civil War veteran buried there; these graves I have cared for myself.

St. Benedict's is being improved and I expect another year will show greater gain.

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St. Aloysius' is doing good work in fixing up the lots.

St. Matthew's has a new iron fence on one side but is sadly neglected. No one seems to care for it.

Respectfully submitted,

MARCUS M. FISK,

Supervisor of Soldiers' and Sailors' Graves.

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REPORT

OF THE

SEALER OF WEIGHTS AND MEASURES AND INSPECTOR OF COAL

SPRINGFIELD, MASS., December 30, 1917.

To the City Council of the City of Springfield.

GENTLEMEN:—The financial showing of this department is of a simple nature and trifling in volume, being briefly summarized as follows:—

Appropriation,	$3,482.34	
Transferred from Reserve Fund,	333.81	
		$3,816.15

EXPENDITURES.

Salaries: Sealer, Deputy Sealers, Inspector of Coal	$2,658.34	
New Ford runabout motor car,	365.00	
Motor car expenses for the year,	405.53	
Teams and motor cars for heavy work,	191.30	
Apparatus and supplies,	57.61	
Record books and printing,	58.81	
Miscellaneous,	79.56	
		$3,816.15
Sealing fees collected and paid to City Treasurer,		$700.06
Allowance for old motor car,		$205.00

The work of the department is thus summarized in the annual report made to the Commissioner of Weights and Measures, Boston, Mass., for the fiscal year 1917:—

	Sealed.	Condemned.
Platform scales, over 5,000 pounds,	95	21
Platform scales, under 5,000 pounds,	308	49
Counter scales,	417	36
Beam scales,	84	6
Spring scales,	815	246
Computing scales,	402	85
Slot weighing scales,	91	2
Prescription scales,	46	5

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	Sealed.	Condemned.
Weights,	2,403	23
Dry measures,	40	5
Liquid measures,	1,626	21
Automatic pumps,	272	26
Milk jars,	41	1
Ice cream cans,	250	1
Yard measures,	367	40
Steel tapes,	23	
Measuring machines,	6	
Total,	7,227	568

Per cent. condemned, 7.83 +.

TRIAL WEIGHINGS AND MEASUREMENTS.

	Tests.	Correct.	Under.	Over.
Confectionery,	144	20	56	68
Fruits and vegetables,	298	89	158	51
Coal in bags,	144	100	19	25
Flour,	258	86	107	65
Bread,	442	162	137	143
Coal in wagons,	8	4	1	3
Butter,	385	357	8	20
Dry commodities,	214	180	14	20
Hay,	10	3	3	4
Meat and provisions,	25	4	10	11
Ice,	8		3	5
Wood,	2		2	
	1,938	1,005	518	414

SUMMARY OF INSPECTIONS.

Stores,	455
Hawkers' and peddlers' vehicles,	1,941
Hawkers' and peddlers' licenses,	1,941
Itinerant vendors,	5
Milk wagons (8,000 bottles),	36
Ice wagons,	50
Coal certificates,	93
	4,528

An analysis of the above figures shows conclusively that in most lines of merchandise our public are receiving full value for their money. While the tests show numerous variations from exact weight, it is proper to state that in most cases the shortage or plusage is very slight—merely enough to justify the classage as "under" or "over." And if the two

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items flour and fruits and vegetables be eliminated, it will appear that in the majority of cases the purchaser receives the advantage of the variation. In the matter of flour, it should also be added that the underweight was only a trifling shortage, and in every instance where this was found to be at all general in a given brand, efficient steps were at once taken to recall such flours where on sale, and to correct the defective weight.

Fruits and vegetables, as handled by hawkers and peddlers and promiscuous salesmen, have long been recognized as the favorite media for the wandering sharper. The requirement that such vendors shall be licensed, as enacted to that effect by city ordinance, has given the weights and measures department, especially when assisted by vigilance on the part of the purchaser or of police officers, opportunity to check in a large measure the sharp practices long known and recognized, but hitherto so difficult to combat. During the past year Deputy O'Malley has given much of his time to this class of violations. The policy of the department for the past fifteen years, to instruct and warn the innocent transgressor, has been continued; but where counsels of kindness were found of no avail, the power of the law has been invoked. During the past year eighteen cases were brought into court by Mr. O'Malley for violation of the laws regarding weights and measures; in every case conviction was secured, and $305 was received in fines.

A great deal of the work of the sealer is of a nature which does not and cannot appear in the tabulations. It consists of the hearing and investigation of numberless reports of real or supposed violations; of assistance rendered in various ways, mostly educational, to the public; to keeping a sharp lookout ever for the interests and welfare of the people. To do this carefully and well in a busy mercantile city like Springfield a materially larger force than has yet been provided is imperatively needed. It is work in which every family and every business man in the city is directly interested, for it relates to the true basis of a nation-wide economy. To your best thought, gentlemen, I earnestly commend this need.

In commenting upon this matter one year ago, in my annual report, the following paragraph was printed. It was true at that time, and it is so doubly true under our present conditions, that as the risk of repitition I call your attention to the thoughts therein expressed: "While the conditions of modern business demand from sealers more careful, constant, and intelligent attention, the growth of our city and the opening of new and exacting fields of labor give an increasing volume as well

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as a growing importance to the work which must be done. . . . Automatic gasoline pumps have suddenly become numerous. From the nature of its mechanism and location, such a pump is extremely liable to require frequent visitations from the sealer and to demand a very liberal portion of his time. Ours is especially an 'automobile city,' and the result is attested in the frequency of the apparatus for gasoline supply. The use of the open, odorous metal measure has largely given place to the more handy, cleanly, but invisible mechanical feeder. The official 'seal' is the only assurance to the purchaser that he is receiving that for which he has bargained. The official duty of the deputy sealer in caring for the demands made in behalf of this single line of work means a great deal in time, energy, and intelligence which the formal report cannot show." And this duty lies as much in the interest of "the stranger within our gates" as to our own citizens.

INSPECTOR OF COAL.

Owing to the pressure of duties along other lines in part, and in part to the very perplexing condition of the coal market, the reweighing of loads of coal in transit has not been followed as closely as in former years. The work done in this line, however, has been adequate to show the same satisfactory conditions of former years—fair dealing, and the variation in favor of the purchaser in the aggregate. These are the official figures:—

Number of loads of coal reweighed,	9
Number showing exact weight,	4
Number showing short weight,	2
Number showing overweight,	3
Total pounds of shortage shown,	65
Total pounds of overweight shown,	115
Net overweight on all loads weighed, pounds,	50
Average overweights on all loads weighed,	5½

The loads of coal thus reweighed were taken up in a manner to assure ignorance of the inspector's intentions, and it will be observed that the results tally closely with the average for the past fifteen years, and it is only justice to the dealers to call the attention of users of coal to the very satisfactory showing which the reports of this officer have given year by year.

Respectfully submitted,

JAMES L. BOWEN,

Sealer of Weights and Measures and Inspector of Coal.

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BOARD OF HEALTH.

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ORGANIZATION OF HEALTH DEPARTMENT

BOARD OF HEALTH.

THOMAS F. REARDEN, M.D., *Chairman.*
EDGAR H. GUILD, M.D. PHILIP V. ERARD.

EDGAR H. GUILD, M.D.,
Health Physician and Bacteriologist.

WILLIAM L. YOUNG,
Agent and Clerk.

GRACE E. WARREN, *Chief Clerk.*
MARY E. MACDONNELL, *Office Clerk.*
MARY T. A. BEGLEY, *Office Clerk.*

SANITARY INSPECTORS.

JACOB R. SACKETT, *Chief,*
ALGER P. BLAINE,
WILLIAM F. BOYLE,
WILLIAM J. HASSETT,
DANIEL J. MAHONEY,
HENRY WRIGHT, JR.

INSPECTORS OF MILK.

STEPHEN C. DOWNS,
FRED L. ROBERTSON.

INSPECTOR OF VINEGAR.

STEPHEN C. DOWNS.

INSPECTOR OF ANIMALS, MEATS AND PROVISIONS. INSPECTOR OF SLAUGHTERING.

HARRY LUKES, D.V.S.

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HEALTH DEPARTMENT HOSPITAL.

1414 State Street.

EDGAR H. GUILD, M.D., *Physician in Charge.*

CONSULTANTS.

EVERETT A. BATES, M.D.
DUDLEY CARLETON, M.D.

CONTAGIOUS DISEASES.

Visiting Physicians.

*ORLAND R. BLAIR, M.D.
RALPH B. OBER, M.D.
HENRY RITTER, M.D.
CHARLES E. STREET, M.D.

TUBERCULOSIS.

Visiting Physicians.

LAURENCE D. CHAPIN, M.D.
WALTER A. HOSLEY, M.D.
GEORGE L. WOODS, M.D.

Aurist and Laryngologist.

WILLIAM A. HARE, M.D.

Roentgenologist.

*ERNEST L. DAVIS, M.D.

ETHEL I. MINKLER, *Matron.*

MEDICAL INSPECTORS OF SCHOOLS.

EDGAR H. GUILD, M.D., *Director.*

WALTER H. CHAPIN, M.D.
MICHAEL W. HARRINGTON, M.D.
JAMES P. HILLARD, M.D.
WALTER A. HOSLEY, M.D.
URGEL LABELLE, M.D.
GEORGE T. LAMARCHE, M.D.
RALPH B. OBER, M.D.
THOMAS F. REARDEN, M.D.
ALLEN G. RICE, M.D.
HENRY RITTER, M.D.
ERDIX T. SMITH, M.D.
CHARLES E. STREET, M.D.
EDWARD J. SWEENEY, M.D.

SCHOOL NURSES.

MARGUERITE ARMSTRONG.
MARY A. HICKEY.
ELIZABETH N. JOYCE.
*MARTHA R. JOYCE.

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Board of Health.

DISPENSARY FOR TUBERCULOSIS.

137½ State Street.

EDGAR H. GUILD, M.D., *Director.*

DISPENSARY PHYSICIANS.

WALTER H. CHAPIN, M.D., *Chief of Clinic.*
*PARKER M. CORT, M.D.
ERNEST H. JUDD, M.D.
*JOHN M. TRACY, M.D.

WINIFRED A. HANNIGAN, *Department Nurse.*
ADALINE B. PERRY, *Clerk and Visitor.*

*Our "Roll of Honor." In service of the United States.

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THIRTY-SIXTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

To His Honor, The Mayor, and Members of the City Council.

GENTLEMEN:—The development of preventive and educational methods in public health work becomes more evident from year to year, and the great struggle for the "spirit of democracy," which is engaging the attention of the entire world, has emphasized the importance of community health and vigor as never before, and furnishes most convincing testimony as to the value and necessity for a broadening and enlargement of all those measures which have in view the building up of a nation of healthy and robust citizens.

One third of the young men called to the service during the year has been rejected for physical defects. While it may not mean that those rejected are unable to do fairly effective work in civil life, as many of these rejections are from ailments or defects of an entirely preventable nature, it certainly emphasizes in no uncertain manner the great responsibility which rests upon every community for a more general observance of the laws of hygiene, sanitation, and right living, which are essential to the establishment and maintenance of any high standard of public health.

This responsibility has its universal application. It rests with equal force upon the city, through the operation and support given to its Health Department, and upon the individual in his daily life and intercourse with his fellow men. The employer and the owner of real estate have definite responsibilities toward their employees and tenants in improving the conditions under which they work and live. Some of these duties are specified by statute, and decided improvements in housing conditions will be in evidence in all future building operations.

It is gratifying to say that a good beginning has been made in this city in the broadening of public health activities. The medical supervision of schools may be mentioned in this connection. In addition to the yearly physical examination of school children, routine and special inspections are made throughout the year. Acute infections are promptly

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discovered, and the various ailments and abnormal conditions found are referred to the parents. At this point the school nurses undertake the work of having these different conditions remedied, and by coming into personal contact with parents, the opportunity is afforded for much educational and instructive work in the improvement of the home conditions under which many school children live.

The Home Helpers' Leagues are an outgrowth of this work, and furnish a most valuable medium for the dissemination of the principles of personal hygiene and the proper care of health by right living.

The establishment of a Dental Clinic opens up a new field of work and will add materially to the benefits already obtained in oral hygiene from the work now being performed on enlarged tonsils, adenoids, and defective teeth. It may justly be considered one of the most important divisions of child hygiene, and an improvement of the physical condition of school children may confidently be expected to follow as the work progresses.

The Tuberculosis Clinic has centralized the work which is being carried on against this disease, and affords a splendid nucleus for all future developments which may come about in the campaign which is continually being waged against this disease.

The teaching of hygiene in the public schools is being continually extended by the Board of Education, and any enlargement of medical supervision in this direction receives its heartiest support and co-operation.

Activities outside of Health Department supervision, such as the Union Relief Association, the Baby Feeding Association, now combined with the Visiting Nurse Association, and the Anti-Tuberculosis Association, are, with various other agencies, all doing valuable work in their respective lines, and it would be hard to overestimate the sum total of good accomplished.

The preservation and protection of the public health is not a simple or easy undertaking, and it is only by the combined efforts of all agencies interested in the welfare of the community that the greatest good can be accomplished, and no health department should fail to co-operate in all possible directions with the various workers in social and economic betterment.

TRANSACTION AND GENERAL WORK OF THE DEPARTMENT.

The Board of Health organized for the year by appointing Thomas F. Rearden, M.D., chairman, and William L. Young, clerk. The com-

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plete list of employees accompanies the report. All employees of the department are under Civil Service, and any appointments made are in conformity with the rules of the State Civil Service Commission.

Thirteen regular meetings were held during the year and three special meetings. The following appointments were made: Harry Lukes, D.V.S., inspector of slaughtering; Mary T. A. Begley, provisional appointment as office clerk, and Martha R. Joyce, permanent appointment as school nurse.

Eleven stable licenses were granted and eighteen applicants given leave to withdraw. Sixteen undertakers' licenses were issued and ten licenses were granted to practice manicuring, massage, and giving of vapor baths. Four licenses for the latter purpose were revoked during the year.

Twenty-six premises were ordered to be connected with the public sewage system during the year. There are comparatively few cesspools in the city at the present time. The number is constantly diminishing and their use is only allowed under strictest precautions.

Certain amendments to the plumbing regulations were approved by the Board, as required by the city ordinances.

The best evidence of a well-managed health department is to be found in the information which is summarized in the different tables distributed throughout the report, and indicates the systematic thoroughness with which the daily work of the department in its great variety of details is carried on. Such a statistical summary would otherwise be impossible.

The general cleanliness and care exercised in the operation of the bakeries, lunchrooms, and restaurants in the city is well maintained, and in those cases where unsatisfactory conditions were found, the desired changes were promptly made. Investigations made by outside agencies interested in the operations of these industries resulted in very favorable reports as to the sanitary conditions and compliance with the regulations in this city.

SUMMARY OF THE GENERAL WORK OF THE DEPARTMENT.

Complaints Investigated and Cause Removed.

Alleys, insanitary,	12
Animals, dead in yard,	15
Animals, dead in street,	7
Animals, kept in cellar,	4
Animals, kept in house,	4

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Animals, nuisance caused by,	3
Ashes, rubbish, and garbage on ground,	104
Buildings, odor in,	11
Cellars, water in,	7
Cellars, insanitary,	35
Cesspools, overflowing,	16
Committing nuisance,	8
Complaints, investigated, no cause found,	43
Contagious diseases, suspected cases,	12
Contagious diseases, failure to observe rules relative to,	62
Dumping grounds, papers and rubbish blown from,	3
Dumping grounds, odor from,	10
Dumping rubbish, unlawfully,	6
Fowls kept in cellar,	7
Garbage in cellar,	4
Garbage, insanitary receptacle,	37
Garbage on porch,	8
Halls and stairways, insanitary,	9
Milk, adulteration of,	4
Milk, illegal bottling of,	2
Milk, contaminated,	3
Milk, unclassified,	45
Odors from unknown source,	19
Plumbing, insanitary,	9
Poultry yards as a nuisance,	19
Privy vaults, workmen's temporary,	2
Provisions, poor quality,	11
Roof leaking,	5
Sewer drains, stoppage of,	11
Sewer drainage in cellar,	11
Sewer openings, odor from,	3
Slaughtering without license,	3
Slops thrown on ground,	6
Stables, insanitary,	19
Stables, no receptable for manure,	11
Stables, occupied without a license,	5
Standing water, odor from,	12
Stores, insanitary,	3
Stores, refuse not removed,	15
Street sweepings in yard,	2
Swine, insanitary pens,	6
Tenements, insanitary,	15
Theater dressing rooms, insanitary,	3
Unclassified,	56
Water closets, insanitary,	30
Water closets, without water,	28
Water closets, frozen,	9
Water closets, insufficient number,	3

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SANITARY INSPECTIONS.

Classification.	Total Inspections.	Re-Inspections.	First Notices.	Complied.	Pending.
Alleys,	2,590	446	445	438	12
Cellars,	1,222	97	74	74	0
Cesspools,	167	38	36	26	10
Dumps,	112	7	5	5	0
For enforcement of Polluted Water Regulations,	9	2	6	1	5
Garbage cans,	2,225	104	97	95	2
Hallways,	119	48	47	46	1
Poultry yards,	238	25	23	23	0
Sinks,	44	4	4	4	0
Defective plumbing,	34	19	14	14	0
Stables,	682	84	77	75	2
Standing water,	5	2	2	2	0
Stores,	100	15	12	12	0
Vaults,	164	19	16	16	0
Water closets,	1,289	86	72	71	0
Yards,	47,730	1,146	1,108	1,081	27
Miscellaneous,	1,104	79	66	66	0

Scarlet fever cases investigated,	366
Diphtheria cases investigated,	453
Typhoid fever cases investigated,	56
Cerebro-spinal meningitis cases investigated,	10
Anterior poliomyelitis cases investigated,	10
Smallpox case investigated,	1
Septic sore throat,	3
Leprosy case investigated,	1
Contagious diseases, suspected cases,	85
Visits to tubercular cases,	63
Visits to measles cases,	4
Visits to eye cases,	1
Visits to leper case,	12
Visits to chicken pox cases,	5
Visits to placarded houses,	596
Visits to infantile paralysis exposure,	2
Diphtheria, swabs for release,	401
Histories (settlement),	410
Houses fumigated,	982
Rooms fumigated,	1,528

TENEMENTS.

Tenements inspected,	1,452
Tenements reinspected,	124
Tenements overcrowded,	2
Tenements with dark rooms,	4
Tenements in need of repairs,	9
Number defects found and notices given,	115
Number complied with,	110
Number pending,	5

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Defects and nuisances discovered.

Tenements needing cleaning,	14
Hallways needing cleaning,	3
Rubbish in cellars,	13
Fowls in cellar,	1
Water closets, defective,	41
Water closets, frozen,	13
Water closets needing cleaning,	15
Soil pipes leaking,	4
Water pipes leaking,	1
Sinks, defective,	1
Water pipes, frozen,	1
Fowls in tenement,	1
Vaults needing cleaning,	7

MISCELLANEOUS.

Inspections,	64,469
Reinspections,	2,653
Total inspections,	67,122
Verbal notices,	2,665
Written notices,	82
Notices served,	93
Nuisances abated by Board of Health, expense charged to owners,	12
Prosecutions,	0
Convictions,	0
Fines imposed,	0
Vaults and cesspools abolished, sewer connection ordered,	25
Stable licenses granted,	11
Given leave to withdraw,	18
Pending,	99
Undertakers' Licenses granted,	16
Licenses granted to practice manicuring, massage, and giving of vapor baths,	10
Given leave to withdraw,	1
Revoked,	4

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NUMBER OF INSPECTIONS AND ACTION TAKEN TO REGULATE CERTAIN BUSINESS ESTABLISHMENTS.

CLASSIFICATION.	Number.	Inspections.	Written Notices.	Verbal Notices.	To Whitewash.	For Alterations.	Notices to Clean.	Other Notices.	Complied with.	Pending.
Bakeries	69	549	7	106	29	5	73	6	108	5
Bakery Salesrooms	5	30	....	1	....	....	1	....	1	....
Restaurants	111	898	1	114	4	3	105	3	113	2
Candy Manufactories	11	14	....	....	....	....	....	....	....	....
Ice Cream Plants	36	80	....	15	1	3	11	....	15	....
Soda Fountains and Ice Cream Salesrooms	128	221	....	15	....	1	11	3	15	....
Soda Bottling Plants	6	8	....	1	....	....	1	....	1	....
Barber Shops	133	507	1	20	....	....	10	11	20	1
Theaters	12	22	....	....	....	....	....	....	....	....
Licensed Lodging Houses	22	42	....	1	....	....	....	1	1	....
Infant Boarding Houses	4	6	....	....	....	....	....	....	....	....
Cafe Restaurants	18	82	....	3	....	....	3	....	3	....
Hotel Kitchens	14	59	....	2	....	....	2	....	2	....
Peanut Products Establishment	1	3	....	....	....	....	....	....	....	....
Ice Cream Cone Manufactories	2	2	....	....	....	....	....	....	....	....
Spaghetti Manufactories	3	13	....	2	....	....	2	....	2	....

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DISEASES DANGEROUS TO THE PUBLIC HEALTH.

Lobar pneumonia was added to this list during the year, and a change was made in classifying tuberculosis, whether pulmonary or other forms. Physicians are required by law to report the occurrence of these diseases to the local Board of Health, and it is evident that the department must rely chiefly upon the information so obtained for its knowledge of the existence of any of these diseases. The co-operation of the medical profession in this direction has been of great aid to the department and no intentional concealment of any disease in the list has been brought to its notice.

Methods of controlling the so-called contagious diseases are changing, and, as the modes of infection are better understood, less interference with the individual will no doubt be necessary. It should be definitely understood that placarding houses for the presence of any contagious disease is entirely for the benefit of the public, and that the department will use every precaution that is necessary in controlling the spread of disease. Isolation periods and other restrictive rules are based on the average duration of infection, as far as can be determined, and a slight margin for safety should be allowed. Nothing is gained by trying to keep too near the danger line, when public safety is concerned, and laxity in observing the regulations by the individual is accountable for many of the unnecessary cases of the more common infections. The number of secondary infections in families and those giving a history of contact make up a goodly percentage of the total numbers, but the prevention of this mode of infection is a difficult matter, while living conditions are such that proper isolation cannot be secured, or where ignorance and prejudice interfere with the proper treatment and care of the patient. These cases should be removed to the hospital, not only as a protective but as a life-saving measure, and they furnish a continual object lesson as to the necessity of more accommodations and wards at the Health Department hospital, where the various infectious diseases can be received and properly treated.

Actinomycosis
Anterior Poliomyelitis
Anthrax
Asiatic Cholera
Cerebro-spinal Meningitis
Chicken Pox
Diphtheria
Dog-bite (requiring anti-rabic treatment)
Dysentery:—
  a. Amebic
  b. Bacillary
German Measles
Glanders
Hookworm Disease
Infectious Diseases of the Eye:—
  a. Ophthalmia Neonatorum
  b. Suppurative Conjunctivitis
  c. Trachoma

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Leprosy	Septic Sore Throat
Malaria	Smallpox
Measles	Tetanus
Mumps	Trichinosis
Pellagra	Tuberculosis (all forms)
Plague	Typhoid Fever
Pneumonia (lobar)	Typhus Fever
Rabies	Whooping Cough
Scarlet Fever	Yellow Fever

TUBERCULOSIS.

240 (178)* cases of tuberculosis were reported during the year, 203 (152) pulmonary and 37 (26) all other forms. There were 100 (66) deaths from pulmonary tuberculosis and 24 (25) from all other forms of the disease. The death rate is 1.059 (.855) per one thousand population, which is the highest of any year since 1910. Tuberculosis, however, occupies the sixth place in the diseases causing death during the year, and this increase in the death rate over previous years is probably temporary, and should not by any means lessen the optimism which is necessary in all work directed against this disease. The population has increased rapidly, with increased congestion of family life, and these existing conditions have without doubt had their effects on the tuberculous individual, and in many cases not by any means of a beneficial nature.

DIPHTHERIA.

453 (176) cases of diphtheria were reported during the year, with 59 (17) resident deaths, giving a case mortality of 13% (9.6%). There were 32 laryngeal cases, 15 nasal cases. 48 (29) secondary infections occurred. 150 (48) gave a history of contact with other cases. 9 were imported cases, 14 made visits outside the city, and in 232 cases the source of infection could not be determined. 237 cases, or 52% of the total number reported, occurred in school children, which, as in previous years, indicates that the schools are not by any means the only source of infection.

There has been a decided increase in diphtheria in many other localities during the year, which would indicate that causative factors having a more or less direct influence on the general prevalence of this disease, in addition to actual contact with the disease, have had some share in its decided increase. There has been an unusual amount of acute throat infections, which have clinically appeared to be diphtheria, but the bacteriological diagnosis has in many cases been extremely difficult, owing to

*Figures in parenthesis indicate corresponding figures in 1916.

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the abundant growth of other organisms and the very few diphtheria bacilli capable of demonstration, even after repeated cultures.

Since antitoxin has become the accepted and universal treatment of diphtheria, the use of sprays and local applications has greatly diminished. It is to be remembered that antitoxin is what its name implies; it does not kill the diphtheria bacillus, and, unless extreme precautions are taken, secondary infections are liable to increase in number. The rapid improvement which often takes place after the use of antitoxin also adds to the difficulty, as oftentimes the patient then doubts the diagnosis and less care is observed in following the directions of the physician or of the department. It is therefore urged that local treatment of the throat should be used and continued in all cases of diphtheria until the patient is released.

SCARLET FEVER.

366 (240) cases were reported during the year, with 6 (3) deaths. 77 (42) secondary cases occurred and 114 (55) gave a history of contact with other cases. 7 (12) cases were contracted out of the city, 13 made visits away from the city within the incubation period, and in 155 (125) cases the source of infection could not be determined. 214 cases of the total number reported occurred in children attending the public schools. The continuance of the disease in a mild form, with a low case mortality, renders it difficult to maintain proper isolation of reported cases, and, with the unrecognized cases and those without medical attention, affords sufficient explanation for the continued prevalence of the disease.

TYPHOID FEVER.

55 (30) cases of typhoid fever were reported, with 6 (3) deaths from resident cases, giving a case mortality of 10.9% (10%). There was 1 (0) secondary infection, 3 (1) gave a history of contact with other cases, and 8 (10) were contracted away from home. 14 (6) made visits outside the city within thirty days previous to date of illness, and in 29 (13) cases the source of infection could not be discovered.

Numerous cases of acute intestinal infection, with symptoms resembling typhoid fever, occurred in the month of October, and for a short time the diagnosis was uncertain, but the early improvement of the patient and careful study of the cases eliminated typhoid fever, and physicians regarded it as intestinal grippe infection. The water and milk supply is under constant supervision, and has never been connected with the occurrence of typhoid fever in this city.

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SMALLPOX.

The city has been especially favored by the absence of this disease. No cases have occurred in this city since 1903, when 10 cases were treated at the hospital then provided for this use. In December a well-marked case of smallpox was discovered in a boarding-house where a large number of meals were served. In view of the change which has taken place in the methods of controlling this disease it may be interesting to mention the procedures adopted. Sixteen people in the boarding-house and 24 at the patient's place of employment were exposed to the disease. The patient was at once removed to the hospital. All persons exposed were immediately vaccinated and then allowed to continue their various occupations, but remained under daily inspection and observation for a period of sixteen days, when all danger of infection was considered ended. No interference with work was attempted or restrictions made as to their association with others, reliance being placed upon vaccination and daily examination to detect the first symptoms of the disease. No difficulty was experienced in obtaining the co-operation of those exposed, as each one realized the discomfort of a quarantine, and was only too pleased to undergo the slight inconvenience of a daily inspection. Nearly all the vaccinations were successful and no person showed any symptoms of the disease. It may also be stated that the caretaker of the patient never had the disease; he was vaccinated when beginning his duties as nurse and has remained perfectly well.

The saving in expense to the city from this method over that of quarantining for a period of two weeks all who had been exposed, represents sufficient money to provide a smallpox hospital or ward where this disease can be treated without difficulty or anxiety as to its proper isolation.

OTHER DISEASES DANGEROUS TO THE PUBLIC HEALTH.

10 (87) cases of anterior poliomyelitis were reported during the year with 8 (21) deaths; Cerebro-spinal meningitis, 10 (4) cases, with 7 (3) deaths. Of the milder infectious diseases, German measles were very prevalent in the months of April, May, and June, 722 (25) being reported for the year. The necessity for a careful differential diagnosis in this disease is apparent, especially from scarlet fever, with which it was mistaken in a number of cases. The number of reported cases of measles was 531 (1,293) with 6 (14) deaths; whooping cough, 105 (132), with 3 (2) deaths. 57 (64) cases of infectious diseases of the eyes in infants were reported during the year, all of which were investigated and received such care and attention as were necessary from the Health Department nurse.

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The list of diseases dangerous to the public health does not include the venereal infections, but the menace to health which is caused by these diseases, not only from their immediate effects but in the later manifestation, has become of vital importance to life and health, and a different attitude should be taken in dealing with a disease which may fairly be placed in the list with tuberculosis in its end results. The innocent victim or the willful disseminator of these infections is a hundredfold greater menace to the health of a community than the sufferers from contagious diseases, who are isolated and restricted by all health authorities, and it is time that some control over the dissemination of these diseases was established. Classification as a social evil has not resulted in its eradication. No expense is spared in the control of leprosy; the Government even expends millions in the suppression of hog cholera, but syphilis exists everywhere, unquestioned and uncontrolled. If treated as other diseases dangerous to the public health are treated, something worth while might be accomplished.

TABLE SHOWING DEATH RATE OF TUBERCULOSIS FROM 1890, ESTIMATED ON POPULATION.

YEAR	POPULATION	DEATHS	RATE
1890	*44,179	114	2.58
1895	*51,522	97	1.88
1900	*62,059	111	1.78
1901	64,412	122	1.96
1902	66,854	111	1.66
1903	69,389	114	1.64
1904	72,020	123	1.7
1905	*73,540	120	1.63
1906	76,255	116	1.52
1907	78,707	114	1.44
1908	81,425	91	1.11
1909	84,237	101	1.19
1910	*88,926	87	.97
1911	92,048	101	1.09
1912	96,973	101	1.04
1913	100,877	99	.98
1914	104,949	109	1.03
1915	*102,971	101	.98
1916	106,365	91	.85
1917	117,058	124	1.059

*Official census.

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DEATHS FROM TUBERCULOSIS—1917.
(Pulmonary)
BY WARDS AND MONTHS.

Wards	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	1	2	....	2	1	....	1	....	....	2	....	1	10
2	1	....	3	1	2	2	5	3	2	1	1	....	21
3	....	1	2	....	3	....	2	....	3	1	....	3	15
4	....	1	....	2	....	2	2	....	1	1	....		11
5	....	....	....	1	....	2	....	1	1	1	1	1	8
6	1	....	1	....	1	....	2	....	2	....	....	1	8
7	....	1	....	....	1	1	1	1	2	....	....	....	7
8	2	1	3	1	....	....	....	....	1	2	1	3	14
Non-residents	1	....	....	1	....	1	1	....	1	1	....	....	6
Totals	6	6	9	8	8	8	14	5	13	9	3	11	100

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TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES, 1917, BY WARDS.

Diseases.	Wards.								
	1	2	3	4	5	6	7	8	Totals.
Actinomycosis	....	....	....	....	....	....	....	....	....
Anterior Poliomyelitis	....	4	....	1	2	....	1	2	10
Anthrax	....	....	....	....	....	....	....	....	....
Asiatic Cholera	....	....	....	....	....	....	....	....	....
Cerebro-Spinal Meningitis	1	4	1	1	....	1	1	1	10
Chicken Pox	31	37	47	17	16	43	14	46	251
Diphtheria	68	142	48	65	22	29	46	33	453
Dog-bite (requiring anti-rabic treatment)	....	....	....	....	....	....	....	....	....
Dysentery:—									
a. Amebic	....	....	....	....	....	....	....	....	....
b. Bacillary	....	....	....	....	....	....	....	....	....
German Measles	53	88	34	63	80	89	136	179	722
Glanders	....	....	....	1	....	....	....	....	1
Hookworm Disease	....	....	....	....	....	....	....	....	....
Infectious Diseases of the Eye:—									
a. Ophthalmia Neonatorum	2	9	5	19	1	4	7	10	57
b. Suppurative Conjunctivitis	....	....	....	....	....	....	....	....	....
c. Trachoma	....	....	....	....	....	....	....	....	....
Leprosy	....	1	....	....	....	....	....	....	1
Malaria	....	....	....	....	....	....	....	....	....
Measles	58	61	128	79	56	73	24	52	531
Mumps	4	12	95	12	10	37	13	18	201
Pellagra	....	....	....	....	....	....	....	....	....
Plague	....	....	....	....	....	....	....	....	....
Pneumonia (Lobar)	13	12	14	10	8	7	7	13	84
Rabies	....	....	....	....	....	....	....	....	....
Scarlet Fever	71	87	23	46	17	12	33	77	366
Septic Sore Throat	1	1	....	1	....	....	....	....	3
Smallpox	....	....	1	....	....	....	....	....	1
Tetanus	2	1	....	....	....	....	....	....	3
Trichinosis	....	....	....	....	....	....	....	....	....
Tuberculosis:—									
Pulmonary	29	48	30	27	13	14	6	36	203
Other Forms	4	8	5	5	2	3	6	4	37
Typhoid Fever	7	10	3	8	3	9	8	7	55
Typhus Fever	....	....	....	....	....	....	....	....	....
Whooping Cough	7	16	17	13	15	5	12	20	105
Totals	351	541	451	368	245	326	314	498	3,094

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TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES BY MONTHS—1917.

DISEASES.	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Actinomycosis	....	....	....	....	....	....	....	....	....	....	....	....	...
Anterior Poliomyelitis	1	....	....	1	1	1	2	....	....	2	1	1	10
Anthrax	....	....	....	....	....	....	....	....	....	....	....	....	....
Asiatic Cholera	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebro - Spinal Meningitis	1	....	....	....	....	7	1	....	....	....	1	....	10
Chicken Pox	12	17	32	36	49	34	7	1	2	5	21	35	251
Diphtheria	37	35	48	26	34	31	15	29	36	65	61	36	453
Dog-bite (requiring anti-rabic treatment)	....	....	....	....	....	....	....	....	....	....	....	....	....
Dysentery:—													
a. Amebic	....	....	....	....	....	....	....	....	....	....	....	....	....
b. Bacillary	....	....	....	....	....	....	....	....	....	....	....	....	....
German Measles	3	6	14	119	290	264	7	3	2	2	6	6	722
Hookworm Disease	....	....	....	....	....	....	....	....	....	....	....	....	....
Glanders	1	....	....	....	....	....	....	....	....	....	....	....	1
Infectious Diseases of the Eye:—													
a. Ophthalmia Neonatorum	3	8	4	5	5	3	5	2	7	3	4	8	57
b. Suppurative Conjunctivitis	....	....	....	....	....	....	....	....	....	....	....	....	....
c. Trachoma	....	....	....	....	....	....	....	....	....	....	....	....	....
Leprosy	....	....	....	....	1	....	....	....	....	....	....	....	1
Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....
Measles	1	16	101	85	128	81	21	4	3	36	22	33	531
Mumps	3	2	12	37	86	31	5	3	6	....	6	10	201
Pellagra	....	....	....	....	....	....	....	....	....	....	....	....	....
Plague	....	....	....	....	....	....	....	....	....	....	....	....	....
*Pneumonia (Lobar)	....	....	....	....	26	8	3	2	9	8	13	15	84
Rabies	....	....	....	....	....	....	....	....	....	....	....	....	....
Scarlet Fever	46	22	26	24	22	40	13	15	17	46	57	38	366
Septic Sore Throat	1	....	....	....	....	....	1	....	....	....	....	1	3
Smallpox	....	....	....	....	....	....	....	....	....	....	....	1	1
Tetanus	....	....	....	....	....	1	....	2	....	....	....	....	3
Trichinosis	....	....	....	....	....	....	....	....	....	....	....	....	....
Tuberculosis:—													
Pulmonary	15	16	15	16	15	21	17	27	13	18	16	14	203
Other forms	2	3	10	....	5	2	2	4	1	1	5	2	37
Typhoid Fever	....	....	1	2	3	3	4	5	10	10	12	5	55
Typhus Fever	....	....	....	....	....	....	....	....	....	....	....	....	....
Whooping Cough	14	3	6	12	4	5	17	7	11	9	9	8	105
Yellow Fever	....	....	....	....	....	....	....	....	....	....	....	....	....
Totals	140	128	269	363	669	532	120	104	117	205	234	213	3,094

* Reportable from May 14, 1917.

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TABLE SHOWING REPORTED CASES AND DEATHS OF COMMUNICABLE DISEASES BY YEARS WITH POPULATION.

Diseases.	1912. 96,973		1913. 100,877		1914. 104,949		1915. *102,971		1916. 106,365		1917. 117,058	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Actinomycosis	....	....	....	....	1	....	....	1	....	....	....	....
Anterior Poliomyelitis	43	10	12	1	6	2	7	3	87	22	10	8
Anthrax	....	....	....	....	....	....	1	....	....	....	....	....
Asiatic Cholera	....	....	....	....	....	....	....	....	....	....	....	....
Cerebro-Spinal Meningitis	2	4	4	....	....	....	2	2	4	3	10	7
Chicken Pox	72	....	81	....	141	....	180	....	126	....	251	....
Diphtheria	131	15	191	16	139	13	142	10	176	18	453	64
Dog-bite (requiring anti-rabic treatment)	....	....	....	....	....	....	2	....	....	....	....	....
Dysentery:—												
a. Amebic	....	....	....	....	....	....	....	....	....	....	....	....
b. Bacillary	....	....	....	....	....	....	....	....	....	....	....	....
**German Measles	....	....	....	....	....	....	23	....	25	....	722	....
Glanders	....	....	....	....	....	....	....	....	....	....	1	1
Hookworm Disease	....	....	....	....	....	....	....	....	....	....	....	....
Infectious Diseases of the Eye:—												
a. Ophthalmia Neonatorum	18	....	14	....	7	....	73	....	64	....	57	....
b. Suppurative Conjunctivitis	....	....	....	....	....	....	3	....	2	....	....	....
c. Trachoma	2	....	1	....	2	....	....	....	....	....	....	....
Leprosy	....	....	....	....	....	....	....	....	....	....	1	....
Malaria	....	....	....	....	....	....	2	....	3	....	....	....
Measles	598	9	617	9	190	9	611	3	1293	14	531	6
Mumps	....	....	....	....	3	....	135	....	138	1	201	....
Pellagra	....	....	....	....	....	....	....	....	1	1	....	....
Plague	....	....	....	....	....	....	....	....	....	....	....	....
***Pneumonia (Lobar)	....	....	....	....	....	....	....	....	....	....	84	124
Rabies	....	....	....	....	....	....	....	....	....	....	....	....
Scarlet Fever	126	2	181	3	87	1	117	1	240	3	366	6
Septic Sore Throat	....	....	....	....	....	....	3	3	1	4	3	2
Smallpox	....	....	....	....	....	....	....	....	....	....	1	....
Tetanus	....	....	....	....	1	1	....	1	1	1	3	....
Trichinosis	....	....	....	....	....	....	....	....	13	....	....	....
Tuberculosis (all forms)	166	101	125	99	173	109	173	101	....	....	....	....
Pulmonary	....	....	....	....	....	....	....	....	152	66	203	100
Other	....	....	....	....	....	....	....	....	26	25	37	24
Typhoid Fever	98	15	81	20	57	22	48	11	30	5	55	7
Typhus Fever	....	....	....	....	....	....	....	....	....	....	....	....
Whooping Cough	100	13	38	6	78	2	325	18	132	2	105	3
Yellow Fever	....	....	....	....	....	....	....	....	....	....	....	....
Totals	1363	169	1412	154	951	159	1847	154	2514	165	3094	352

*Official census.
**Tabulated as measles until 1915.
*** Reportable since May 14, 1917.

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TABLE SHOWING REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY AGE PERIODS AND SEX — 1917.

AGES	Under 1		1–4		5–9		10–14		15–19		20–24		25–34		35–44		45–54		55–64		65–74		75–84		Over 85		Totals	
SEX	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
DISEASES																												
Anterior Poliomyelitis	..	..	2	3	2	..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	6
Cerebro-Spinal Meningitis	2	..	2	1	..	..	2	..	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	9	1
Diphtheria	2	3	66	56	91	112	28	33	4	14	4	10	5	10	2	7	1	3	..	2	..	..	..	..	..	..	203	250
Glanders	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Leprosy	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Scarlet Fever	1	1	45	56	88	90	22	25	3	4	4	5	4	12	2	2	..	2	..	..	..	..	..	..	..	..	169	197
Septic Sore Throat	..	..	..	..	..	1	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1
Smallpox	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Tuberculosis (Pulmonary)	1	1	1	1	..	2	2	8	6	9	17	13	45	17	37	18	12	6	6	..	1	..	..	..	..	..	128	75
Tuberculosis (Other forms)	..	3	11	4	3	4	..	1	1	1	1	..	2	3	1	1	..	..	..	1	..	..	..	..	..	..	19	18
Typhoid Fever	..	..	..	1	1	2	1	7	6	3	6	6	8	5	1	4	1	1	..	2	..	..	..	..	..	..	24	31
Totals	6	8	127	122	185	211	55	76	21	32	35	34	67	47	43	32	14	13	6	5	1	..	..	..	..	..	560	580

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HEALTH DEPARTMENT HOSPITAL.

397 (295) patients were admitted to the different wards of the hospital during the year. The admissions for diphtheria represent 35.7% (37%) of the total number of cases reported, and 33% (36.6%) of scarlet fever cases. The case mortality for diphtheria was 17% (9.1%). 30 deaths occurred in the contagious wards, 26 from diphtheria, of which 12 lived less than twenty-four hours after admission. 10 were neglected septic cases and 4 were secondary complications. 3 deaths occurred from scarlet fever and 1 death from poliomyelitis. The high mortality from diphtheria is explained by the serious condition of the cases when admitted. The contagious wards are still used for other diseases besides diphtheria and scarlet fever, as necessity arises, but the practice should be discontinued and the long-needed extension of the hospital provided. 3 cases of mixed infections were admitted, the admissions being for scarlet fever, but cultures from the throat showed diphtheria also. 3 cases of cross infections occurred; 2 cases of diphtheria contracted scarlet fever along with one case of measles. Cross infections are liable to occur in any hospital, and it is fortunate that more complications of this nature do not take place, where the difficulties in caring for a variety of infectious diseases in a hospital planned only for diphtheria and scarlet fever are understood, and the management and faithful work of the employees is worthy of mention.

4 (5) cases of ophthalmia neonatorum were treated with recovery; 6 (16) cases of measles, 3 (46) cases of poliomyelitis were received. 6 (10) cases were admitted during the year in which the original diagnosis was changed, but were allowed to remain until able to be discharged.

89 (61) cases of pulmonary tuberculosis were admitted during the year,—58 (42) were males, 31 (23) were females. The tuberculosis ward is maintained for advanced patients, but during the year one case was discharged with the disease arrested and 22 discharged greatly improved. 42 deaths occurred during the year. The male patients averaged twice the number of females, and in any additions made to the hospital the accommodations for male patients should be in that proportion.

CONTAGIOUS DISEASE WARDS.

Number of patients in hospital December 31, 1916,	19
Number of patients admitted during year,	308
Number of intubations for diphtheria,	18
Number of deaths following intubation,	8
Number of private patients admitted during the year,	48

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Number of physicians treating private patients,	30
Total number of days for diphtheria patients,	2,567
Average number of days for diphtheria patients,	15.8
Total number of days for scarlet fever patients,	4,879
Average number of days for scarlet fever patients,	40.3
Total number of days for other diseases,	161
Total number of days for all diseases,	7,607
Number of deaths from diphtheria,	26
Number of deaths from scarlet fever,	3
Number of deaths from other diseases,	1
Total number of deaths from all diseases,	30

PATIENTS ADMITTED BY MONTHS.

1917.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Diphtheria	18	15	19	13	13	13	4	9	15	13	17	13	162
Scarlet Fever	16	4	7	9	8	13	4	7	10	17	17	9	121
Ophthalmia	..	2	..	1	1	..	..	..	..	..	..	..	4
Others	..	..	3	1	..	1	..	..	1	..	..	..	6
Mixed Infections	1	..	..	..	1	..	..	..	1	..	1	2	6
Poliomyelitis	1	..	..	..	..	..	1	..	..	1	..	..	3
Measles	..	1	..	3	1	..	..	..	..	..	..	1	6
Totals	36	22	29	27	24	27	9	16	27	31	35	25	308

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AGE OF PATIENTS.

1917.

Age	Under 1		1-4		5-9		10-19		20-29		30-39		40-49		Over 50		Totals
Sex	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Diphtheria	1	2	22	16	32	28	8	27	3	13	..	6	..	3	..	1	162
Scarlet Fever	1	..	8	13	25	33	9	17	5	6	1	2	..	1	..	...	121
Ophthalmia	1	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
Others	1	..	2	..	1	..	..	1	1	..	..	..	..	..	..	..	6
Mixed Infections	..	..	..	2	2	..	1	1	..	..	..	..	..	..	..	..	6
Poliomyelitis	..	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	3
Measles	..	..	1	1	1	..	2	..	..	1	..	..	..	..	..	..	6
Totals	4	5	34	32	63	61	20	46	9	20	1	8	..	4	..	1	308

TUBERCULOSIS WARDS.

Patients in hospital December 31, 1916,	22
Patients admitted during year,	89
Number discharged with disease arrested,	1
Number discharged improved,	21
Number discharged, condition not improved,	13
Number transferred to other institutions,	6
Number discharged for refusal to obey hospital rules,	1
Number of deaths,	42
Total number of days for patients,	8,324
Average number of days per patient,	75
Number condition improving December 31, 1917,	12
Number condition not improving,	24
Number of patients in hospital December 31, 1917,	26

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AGE OF PATIENTS.

Tuberculosis Wards. 1917.

Age	Under 1 year		1-4		5-9		10-19		20-29		30-39		40-49		Over 50		Totals
Sex	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Tuberculosis	1	..	..	..	..	..	3	4	23	14	21	6	2	5	8	2	89

PATIENTS ADMITTED BY MONTHS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Tuberculosis	4	6	7	5	10	7	10	9	10	6	6	9	89

DISPENSARY FOR TUBERCULOSIS.

In reviewing the work of the dispensary for the year the general plan of operation may be briefly stated. All cases reported to the Board of Health are investigated from the dispensary and a case record placed on file. The physician in attendance is notified, and the facilities of the dispensary are placed at his command in the care and treatment of the case under his direction. Patients without a physician are urged to come to the dispensary and obtain the care and advice of the clinic physicians. Many cases are referred to the dispensary by physicians, and the work which is being developed has received the heartiest support of the medical profession. Patients unable to attend the clinic are visited at their homes, and such care and assistance rendered as is found necessary. Patients returning from sanitaria are under observation, and report regularly to the clinic. The conditions under which the patients live are investigated, special attention being given as to the way in which the disease is transmitted and the precautions to be used by the patient. Pamphlets printed

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in five different languages are freely used, which cover the important points in the care and prevention of the disease. The nature of the disease and the difficulty in securing the co-operation of the patients, and sometimes their friends, are discouraging features to all workers in the cause. The lack of accommodations in all State sanitaria for the admission of hopeful cases is most discouraging to the patient whose condition may, during this waiting period, grow steadily worse, and who then, having lost the chance for recovery, is placed in the advanced class. The city is then expected to provide accommodations for a large number who should have received the prompt and earlier care to which they were entitled from the State.

DISPENSARY FOR TUBERCULOSIS.

Report for year of 1917.

Number new patients,		172
Number not tubercular,		97
Number visits to dispensary, new and old patients,		398
Number patients under dispensary supervision December 31, 1917,		116
Number positive sputum examinations,		67
Number negative sputum examinations,		70
Number first visits made at homes,	Nurse,	134
	Visitor,	103
Number subsequent visits made at homes,	Nurse,	786
	Visitor,	580
Number visits to patients unable to attend clinic,	Nurse,	373
	Visitor,	405
Total number visits made on above,	Nurse,	1,293
	Visitor,	1,088
Total number visits for year,		2,381
Number patients improving, December 31, 1917,		30
Number patients not improving,		86
Number dispensary patients admitted to Health Department hospital during the year,		70
Number dispensary patients admitted to other hospitals during the year,		39
Number new and old patients returned from above, reporting to dispensary during the year,		214
Number new and old patients moved out of town (not to Sanitarium or Hospital),		34
Number deaths of dispensary patients during the year,		94

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LABORATORIES.

The total number of examinations made in the bacteriological laboratory during the year was 3,401 (1,981), divided as follows: Diphtheria 2,820 (1,451), tuberculosis 494 (452), and typhoid fever 90 (78). Considerable difficulty was experienced in making a bacteriological diagnosis of diphtheria, owing to feeble growth of the diphtheria organism in many cultures, and abundant growth of other bacilli. The case mortality for diphtheria was higher, and the infection was virulent in nature in many cases.

The percentages of positive results were well maintained: Diphtheria 28.1% (16.7%); typhoid fever 27.7% (24.3%); tuberculosis 34.4% (25.7%), and compare favorably with the records of other laboratories.

DIPHTHERIA.

MONTHS.	DIAGNOSIS.		RELEASE.		TOTAL Examinations.
	Positive.	Negative.	Positive.	Negative.	
January,	51	130	6	43	230
February,	39	111	44	193	387
March,	43	135	11	130	319
April,	24	95	9	84	212
May,	34	87	4	50	175
June,	34	118	2	72	226
July,	13	58	2	29	102
August,	28	54	2	26	110
September,	38	72	2	50	162
October,	58	89	9	102	258
November,	62	149	28	136	375
December,	45	98	11	110	264
Totals,	469	1,196	130	1,025	2,820

28.1% positives.

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TYPHOID FEVER.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Positive	0	0	0	1	2	0	2	6	8	1	6	1	27
Negative	1	1	5	4	3	3	9	6	10	2	7	5	56
Doubtful	0	0	0	2	0	1	1	2	0	0	1	0	7
Totals	1	1	5	7	5	4	12	14	18	3	14	6	90

27.7% positives.

TUBERCULOSIS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Positive	14	12	14	15	12	17	19	22	11	9	13	12	170
Not found	23	29	28	26	32	27	22	19	27	35	34	22	324
Totals	37	41	42	41	44	44	41	41	38	44	47	34	494

34.4% positives.

INFANT MORTALITY.

325 deaths occurred in children under one year of age during the year, an increase of 14 over 1916 and of 49 over 1915. The available birth returns are 3,485 (3,453), which gives an infant mortality rate of 93.25 (90) per one thousand births. 159 (131) stillbirths occurred.

A study of the infant mortality table emphasizes the importance of child welfare work in its various lines, and the different agencies actively engaged in this work should receive hearty co-operation and financial aid.

Prenatal work is about to assume a definite place in the general plan for infant welfare under the direction of the Visiting Nurse Association, and the record of stillbirths, deaths from congenital debility and premature births should be favorably influenced, as the importance of this subject is better understood by those who are to be benefited. The artificial feeding of infants has been well cared for by the Baby Feeding Association through its milk station, but with the introduction of home instruction as to the proper preparation of milk and the opportunity thus afforded for other helpful suggestions, further improvements in results are looked for by the Visiting Nurse Association, which is the successor of the Baby Feeding Association in the care and feeding of infants.

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INFANT MORTALITY—1917.

Months.	Total Under 1 year	AGES.											
		Under 1 day	1-2 days	2-3 days	3 days 1 week	1-2 weeks	2-3 weeks	3 weeks 1 month	1-2 months	2-3 months	3-6 months	6-9 months	9-12 months
January	22	10	..	..	..	..	1	1	1	1	5	2	1
February	21	3	1	..	1	2	4	1	1	2	5	..	1
March	37	6	2	3	4	1	1	3	4	2	1	5	5
April	26	8	..	1	1	2	1	2	2	1	4	2	2
May	23	1	..	1	2	4	3	1	1	3	4	2	1
June	25	8	2	2	1	2	2	..	.	..	4	3	1
July	28	6	..	2	3	..	..	..	3	1	5	6	2
August	35	8	1	1	2	1	1	1	1	1	10	5	3
September	42	10	1	2	1	3	1	2	3	2	13	2	2
October	26	3	3	..	3	3	..	2	..	4	3	4	1
November	12	2	..	1	2	2	..	..	1	..	2	2	..
December	28	3	4	..	3	2	1	1	4	1	4	4	1
Totals	325	68	14	13	23	22	15	14	21	18	60	37	20
Males	191	39	9	11	14	17	11	4	5	10	35	24	12
Females	134	29	5	2	9	5	4	10	16	8	25	13	8
Totals	325	68	14	13	23	22	15	14	21	18	60	37	20
Classification.													
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping Cough	1	..	..	..	..	..	..	..	..	..	..	..	1
Diphtheria	2	..	..	..	..	..	..	..	..	..	1	..	1
Influenza	3	..	..	..	..	..	..	..	..	1	..	..	2
Tuberculosis (Pul.)	1	..	..	..	..	..	..	..	..	..	1	..	..
Syphilis	2	..	..	..	..	..	..	1	1	..	..	..	..
Anterior Poliomyelitis	..	..	..	..	..	..	..	..	..	..	..	..	..
Convulsions of Infants	3	..	..	..	1	..	..	..	..	..	..	..	1
Acute Bronchitis	9	..	..	..	..	1	2	..	1	1	1	..	3
Broncho-Pneumonia	22	..	..	1	1	..	1	2	..	1	11	4	1
Pneumonia	16	..	..	..	..	..	..	1	..	3	3	7	2
*Diarrhœa and Enteritis	77	..	..	..	2	6	4	3	7	8	25	17	5
Congenital Malformations	31	4	1	3	5	4	3	2	4	..	4	1	..
Congenital Debility	20	2	..	2	3	4	1	..	3	1	4	..	..
Premature	92	52	13	3	7	4	3	2	2	2	4	..	..
Other Diseases	46	10	..	4	4	3	1	3	3	1	5	8	4
Totals	325	68	14	13	23	22	15	14	21	18	60	37	20

*Bottle fed, 64; breast fed, 9; both, 4.

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INFANT MORTALITY.

Maternal Nativity and Ward Residence.

Nativity of Mother.	WARDS.								
	1	2	3	4	5	6	7	8	Totals.
Massachusetts	8	14	5	6	5	6	7	19	70
Other States	11	13	12	17	6	9	7	14	89
Austria	1	8	..	..	..	..	..	23	32
Canada	8	2	3	3	1	1	4	12	34
England	..	1	1	..	..	..	1	1	4
Germany	1	2	1	..	..	..	..	..	4
Greece	..	4	..	..	..	1	..	1	6
Hungary	..	..	1	..	..	..	..	..	1
Ireland	4	5	..	5	..	..	1	1	16
Italy	..	1	23	4	2	7	..	..	37
Norway	1	..	..	..	..	..	..	1	2
Portugal	..	..	..	..	..	..	..	1	1
Russia	2	16	..	..	..	..	1	..	19
Russia Poland	..	2	..	..	..	..	..	..	2
Scotland	..	..	..	1	..	..	..	2	3
Sweden	..	1	..	1	..	..	..	..	2
Syria	..	2	..	..	..	..	..	..	2
Turkey	..	..	..	..	1	..	..	..	1
Totals	36	71	46	37	15	24	21	75	325

INFANT MORTALITY RATE.

Years.	Births, excepting stillbirths.	Deaths under 1 year.	Rate deaths per 1000 births.
1911	2,582	250	96.82
1912	2,876	282	98.05
1913	2,964	295	99.52
1914	3,077	284	92.29
1915	3,268	276	84.45
1916	3,453	311	90.00
1917	*3,485	325	93.25

*Estimated.

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MEDICAL SUPERVISION OF SCHOOLS AND CHILD WELFARE.

A large amount of the work carried on during the year is more or less a repetition of the work of previous years, and any tendency towards a perfunctory execution of the various duties should be avoided. The mere accumulation of statistics showing the number of children with abnormal or defective conditions does not constitute medical supervision. It means, in addition, the continual oversight of every child who is found with any deviation from health until that child ceases to need attention. This result may be quickly accomplished, or it may be necessary to follow the child from year to year before satisfactory results are obtained. In other words, the ultimate object of medical supervision consists in assuming the necessary oversight of the child during the developmental period of life, so that all conditions interfering with health and normal development shall, if possible, be removed. While a large proportion of this work devolves on the School Nurse, the medical inspector should have a sustained interest in the accomplishment of results, through the various channels which it may be necessary to use, and at suitable intervals inform himself of the progress being made of individual cases, so that the work will be progressive and no child allowed to remain without definite oversight from some source.

GENERAL YEARLY INSPECTION OF SCHOOL CHILDREN.

1916–1917.

Number of pupils in rooms examined,	15,403
Number of pupils examined,	15,169
Number of pupils reported with no defects,	3,661
Number of pupils reported with nervous affection,	86
Cardiac diseases reported valvular,	57
Orthopedic defects reported,	169
Enlarged glands (tubercular),	85
Tuberculosis,	2
Defective teeth,	7,303
Enlarged tonsils,	3,177
Adenoids,	2,492

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LIST OF DISEASES REFERRED TO MEDICAL INSPECTORS OF SCHOOLS FOR INSPECTION AND DIAGNOSIS TABULATED FROM WEEKLY REPORTS FOR YEAR ENDING DECEMBER 31, 1917.

I.—Infectious Diseases.	1915	1916	1917
Diphtheria,	2	8	9
Scarlet Fever,	6	4	6
Measles,	66	140	333
Mumps,	160	94	82
Whooping Cough,	53	29	16
Chicken Pox,	132	72	90
Tuberculosis,	1	1	1
Influenza,	21	18	15
Other Diseases,	14	12	13
II.—Diseases of Oral and Respiratory Tract.			
Acute Pharyngitis,	319	501	451
Acute Tonsilitis,	166	186	246
Chronic Hypertrophic Tonsils,	160	364	90
Acute Rhinitis,	152	134	134
Defective Nasal Breathing,	31	82	81
Adenoids,	63	127	33
Other Diseases,	78	39	66
III.—Diseases of Eye and Ear.			
Acute Otitis Media,	25	20	20
Chronic Otitis Media,	23	27	22
Other Diseases of Ear (defective hearing excluded),	19	15	21
Blepharitis,	44	46	50
Acute Conjunctivitis,	89	53	123
Other Diseases of Eye (defective visions excluded),	108	94	158
IV.—Diseases of the Skin.			
Acne,	41	15	15
Boils,	73	71	56
Dermatitis,	122	165	222
Eczema,	197	178	140
Erythema,	31	26	32
Herpes,	166	177	216
Impetigo Contagiosa,	666	649	897
Pediculosis,	449	482	356
Scabies,	80	71	101
Tinea,	37	32	36
Other Affections,	376	329	292

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V.—Miscellaneous.	1915	1916	1917
Abscesses and Ulcers,	152	108	201
Contusions and Injuries,	511	506	921
Cardiac Diseases,	27	37	4
Fever,	33	40	52
Gastric and Intestinal,	142	112	88
Pulmonary Disease,	30	16	11
Tubercular Lymph Nodes,	14	26	11
Other Diseases not classified,	699	1,120	939
Malnutrition,	45	131	11
Summary.			
Specific and Infectious Diseases,	455	378	575
Oral and Respiratory Diseases,	969	1,433	1,101
Diseases of the Ear,	67	62	63
Diseases of the Eye,	241	193	331
Diseases of the Skin,	2,238	2,195	2,363
Miscellaneous Diseases,	995	976	1,299
Unclassified,	699	1,120	939
No disease found,	1,306	1,242	1,429
Number of first examinations,	6,930	7,599	8,100
Number of re-examinations,	4,369	3,913	5,571
Total number of examinations,	11,299	11,512	13,671
Vaccinations,	1,495	478	2,851
Total number sent home,	608	647	787

LIST OF MEDICAL INSPECTORS OF SCHOOLS.

Dr. W. H. Chapin, Central High, Commercial High, Technical High, State Street Grammar, School Street, and East Union Street.

Dr. M. W. Harrington, I. O. Primary and Grammar, Sixteen Acres, Five Mile Pond, and Rushville.

Dr. J. P. Hillard, Kensington Avenue, White Street, Boston Road, and Forest Park Portable.

Dr. W. A. Hosley, Sumner Avenue, Worthington Street, Forest Park, Vocational, and Dry Bridge.

Dr. G. T. Lamarche, St. Joseph, St. Aloysius, I. O., St. Matthews, I. O., Immaculate Conception, I. O.

Dr. U. Labelle, Charles Street, Glenwood, Brightwood, Armory Street.

Dr. R. B. Ober, Buckingham, Tapley, and Homer Street.

Dr. T. F. Rearden, Sacred Heart, St. Michael, Holy Family, Holy Name.

Dr. H. Ritter, Carew Street, Jefferson Avenue, and Hooker.

Dr. A. G. Rice, Chestnut Street and Lincoln.

Dr. E. T. Smith, Acushnet Avenue and Central Street.

Dr. C. E. Street, Strickland, Barrows, Alden Street, and Eastern Avenue.

Dr. E. J. Sweeney, Howard Street and William Street.

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SCHOOL NURSES.

The diversity of work which is placed upon the school nurse is continually growing, as its value becomes more apparent, and, as the schools increase in number, additional nurses will be required to carry on the work already outlined. The daily contact between the nurse, the pupil, and the home life gradually establishes the acquaintance and confidence which is essential in attending to the various ailments of the children, and especially for securing improvements in the living conditions. The tabulation of the work performed indicates its variety and shows the results obtained. The school treatment of skin diseases, parasitic affections, and minor injuries prevents a lowering of school attendance percentages, and in many instances is preferable to the home treatment.

REPORT OF SCHOOL NURSES FOR THE YEAR ENDING DECEMBER 31, 1917.

	No.	Cured.	Under Observation.	Refused Treatment.	Other Care, Moved.
Skin diseases,	1,515	1,481	24		10
Parasitic affections,	701	359	284		58
Chronic enlarged tonsils,	1,359	287	913	3	156
Adenoids,	1,243	282	804	3	154
Defective vision,	485	194	241		50
Other eye affections,	296	273	19		4
Defective hearing,	61	35	17		9
Tuberculous disease,	6	3	2		1
Heart disease,	13		7		6
Orthopedic,	9	5	1		3
Defective teeth, etc.,	1,222	203	947		72
Miscellaneous,	2,944	2,887	33		24
Totals,	9,854	6,009	3,292	6	547

New cases visited,	3,537
Total visits, new and old,	5,773
Total treatments at homes,	449
Total treatments at school,	7,189
Inspections (school),	23,341
First aid and dressings (school),	9,120
Visits to M. D., Hospital, etc.,	165
Reported Measles,	265
Mumps,	200
Scarlet Fever,	30
Chicken Pox,	151
Diphtheria,	38
Whooping Cough,	18
German Measles,	232
Pneumonia,	2

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HOME HELPERS' LEAGUES.

The leagues are now organized in fifteen schools throughout the city, and the general plan of operation has been outlined in previous years. The interest is well maintained by the nurses who have charge of the weekly meetings held during the summer months and the members are fully alive to the object of the league, as is shown in the report of their activities. The 200 girls comprising the different leagues receive valuable information on many topics concerning personal health. It shows itself in many ways, not only in their own homes, but in the influence exerted upon other pupils, and the leagues are now considered a definite part of child welfare work.

Talks and demonstrations at meetings,	88
Number of home demonstrations,	41
Cases of sick babies reported by members,	109
Visits made on cases reported by members,	295
Visits made to doctors and hospitals with children,	27
Poor sanitary conditions reported by members,	45
Whooping Cough cases reported,	6
Mumps cases reported,	2
Chicken Pox cases reported,	3
Referred to Union Relief Association,	8
Referred to Baby Feeding Association,	10

ORAL HYGIENE.

Defective teeth, enlarged tonsils, and adenoids are the cause of much illness in school children, and are responsible for many cases of malnutrition and subnormal development. The mouth is the recognized avenue for the entrance to the system of various disease organisms, and defective conditions existing in the mouth increase the dangers from disease. Oral hygiene has, therefore, become a definite division of medical supervision of children in the schools. Diseased tonsils and adenoids are being cared for by the inspectors and school nurses with encouraging results. The prevalence of defective teeth has been a matter of record for some years, and parents have been notified and urged to consult a dentist and have the teeth properly taken care of. It is safe to say that fifty per cent of children need such care and attention in greater or less degree. The logical outcome of this situation is the establishment of a Dental Clinic where systematic oversight of the teeth can be maintained, and the importance of sound teeth made so apparent that preventive measures and daily care of the teeth will become a fixed habit, which will result in improved health and freedom from infection.

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The appropriation which was made for this purpose contemplated utilizing the services of a number of dentists in various parts of the city on Saturday forenoons when children could be sent from the different schools. Upon careful investigation of this method numerous objections as to its practical operation and success became apparent, and permission was then obtained to utilize the appropriation in establishing a Dental Clinic in a school building. The Howard Street School was selected for this purpose and after conferring with the Board of Education, which is ready to co-operate in any way necessary to make the clinic a success, commodious and well-equipped quarters have been provided. It is believed that the change from the original plan will more than compensate for any delay which has occurred, and that a substantial and important addition to child welfare work will soon be established.

FOOD INSPECTION.

Milk.

The production and distribution of milk is one of the most important industries in the whole range of food products. The capital invested reaches into millions of dollars, but the unsettled conditions which have existed for some years are not by any means adjusted. So many different plans are advocated by different conflicting interests for the solution of the whole question, that any permanent standard satisfactory to all parties concerned may be difficult to establish. The food value of milk is receiving more attention, and, as it is more generally understood, the consumer will naturally be willing to pay the increased price which is now being asked. Although health departments are not primarily interested in this feature of the milk industry, it is believed that the consumer will be able to obtain standard pure milk at a reasonable price and in accustomed quantities. Competition of dealers, along with satisfactory returns to the producer, may be depended upon for controlling any long-continued, undue increase in the price to the consumer. At the present time most of the milk sold in stores is being retailed at not over eleven cents per quart. No delivery is made at this price, but it has eliminated the question of establishing milk stations by the city.

The small dealer is retiring from the business to a notable extent, due to a variety of reasons which can be condensed into the statement that it is difficult at the present time to make any profit from a small milk route, and under present requirements and regulations the handling of milk on a profitable basis calls for a considerable investment of capital.

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COMPARATIVE BACTERIA COUNTS FROM THREE DEALERS USING DIFFERENT SYSTEMS FOR PASTEURIZING MILK.—BEFORE AND AFTER PASTEURIZATION.

Date	Dealer No. 1		Dealer No. 2		Dealer No. 3	
	Before	After	Before	After	Before	After
9–17–17	340,000	10,000	40,000	7,400	190,000	3,300
9–24–17	110,000	2,300	100,000	3,800	70,000	20,000
10– 1–17	410,000	10,000	130,000	6,700	510,000	10,000
10– 8–17	60,000	3,500	220,000	7,000	45,000	6,000
10–15–17	600,000	2,000	20,000	3,500	40,000	2,500
10–22–17	750,000	5,800	100,000	7,100	230,000	10,000
10–29–17	190,000	10,000	120,000	8,500	80,000	10,000
11– 5–17	40,000	900	80,000	1,600	60,000	3,700
11–12–17	90,000	9,000	80,000	4,500	120,000	9,500
11–19–17	180,000	2,700	60,000	5,600	130,000	9,000
11–26–17	80,000	4,900	50,000	5,000	190,000	9,900
12– 3–17	180,000	500	170,000	12,000	150,000	9,100
12–10–17	40,000	600	50,000	8,000	60,000	6,000

SUMMARY OF MILK BACTERIA COUNTS.

	1916.		1917.	
Number of samples with 10,000 and under,	56	15.2%	103	25.7%
Number of samples between 10,000 and 20,000,	22	6.0%	29	7.2%
Number of samples between 20,000 and 50,000,	62	16.8%	55	13.7%
Number of samples between 50,000 and 100,000,	58	15.8%	50	12.5%
Number of samples between 100,000 and 200,000,	46	12.8%	56	14.0%
Number of samples between 200,000 and 500,000,	40	10.9%	41	10.2%
Number of samples with a count above 500,000,	83	22.6%	66	16.5%
Number of samples with not more than 10,000,	56	15.2%	103	25.7%
Number of samples with not more than 100,000,	198	53.9%	237	59.2%
Number of samples with not more than 500,000,	284	77.3%	334	83.5%

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ICE CREAM ANALYSIS.

Samples taken,	164
Number of wholesale dealers,	10
Number of dealers who purchase ice cream,	69
Number of dealers who manufacture ice cream,	31
Number of samples above standard,	158
Number of samples below standard,	6
Highest per cent of fat,	20.40%
Lowest per cent of fat,	4.75%
Average per cent of fat,	11.24%

SUMMARY OF WORK PERFORMED IN THE DAIRY DIVISION.

Estimated number of quarts sold daily in Springfield,	66,500
Estimated number of quarts sold daily in city from near-by dairies,	60,000
Estimated number of quarts sold daily in city from New York state and Vermont dairies,	6,500
Estimated number of quarts of cream sold in city daily,	5,000
Number of licenses issued for the sale of milk,	832
Number of licenses and registrations for sale of oleomargarine,	190
Number of near-by dairies sending milk to Springfield,	821
Number of New York and Vermont dairies sending milk to Springfield,	247
Number of changes made by dealers in the source of supply during 1917,	444
Number of dairy milk houses built during 1917,	40
Number of dairy barns built during 1917,	6
Number of barns remodeled during 1917,	11
Number of inspections made of dairies,	1,104
Number of inspections made of stores and restaurants,	1,289
Number of inspections made of milk wagons and rooms,	850
Number of inspections (total),	3,233
Number of samples collected at milk plants,	1,241
Number of samples collected at trains,	61
Number of samples of milk collected at stores,	195
Number of samples of milk collected from wagons,	359
Number of samples of milk brought to laboratory,	740
Number above standard,	2,145
Number below standard,	456
Number below in solids and fats,	207
Number below in solids,	391
Number below in fats,	207
Number of samples analyzed (total),	2,601
Number of samples of skimmed milk analyzed,	15
Number of samples of buttermilk analyzed,	6
Number of samples of prepared milk and cream analyzed,	42
Number of samples plated for bacterial examination,	400
Number of refractions for the presence of water,	37
Number of samples containing added water,	15
Number of microscopic examinations,	105
Number of prosecutions,	00
Number of samples having bad flavor,	26
Number of slimy milk and cream samples,	2
Number of bitter milk samples received and examined,	11

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Number of samples showing skimming,	33
Number of protein examinations,	33
Number of oleomargarine samples examined,	5
Number of butter samples examined,	10
Number of sediment tests for visible dirt,	340
Number of cows tested for producers,	122
Number of cards and notices,	1,655
Number of samples of vinegar tested,	126
Number below in solids,	22
Number below in acid,	27

The pasteurization of milk has now assumed definite form through an act of the Legislature, and, although not compulsory in any city, ninety per cent of the milk used in this city is pasteurized in conformity to the State law, and is handled by nine (6) dealers. An interesting table relating to bacterial contents of milk before and after pasteurization is included in the report. The table shows a reduction of about eighty per cent of the bacterial counts after pasteurization, which is only ten per cent below the theoretical standard. As the samples after pasteurization were obtained from bottles delivered to the consumer, opportunities for contamination and growth of bacteria could not be controlled, but the average reduction in the count demonstrates the practical control which pasteurization exerts in giving a product of extremely low bacterial count, and further improvement in details of pasteurization will no doubt add to the good showing already made. 25 (12) dealers have discontinued business during the year. 8 (6) small routes have been taken over by large dealers, and 85 (40) dairies have discontinued sending milk to Springfield. There are 96 (57) small producers, with less than 20 quarts a day. 255 (315) dairies were inspected once during the year, 285 (293) twice, and 93 (63) three times. Ninety-five per cent of all milk used is sold in bottles; the remaining five per cent is sold as loose milk, chiefly in the Indian Orchard district of the city and to hotels and restaurants for cooking purposes.

VITAL STATISTICS.

There has been a steady increase in the population during the last few years, and for the present year estimates have been made from 109,000 to 122,000. For the purposes of vital statistics an accurate enumeration is essential, otherwise the different statements made, which are based on population, require revision from year to year. 117,058 has been taken as the mean average of the estimates made for the year. As compared with 106,265 for 1916, it represents more accurately the present population, as the 1916 estimate was evidently below the real number. The

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gross mortality rate is 15.93 (16.36) per one thousand population. There were 284 (229) non-resident deaths, which makes the actual mortality rate 13.50 (13.98) per one thousand population.

56 (47) deaths were caused by accidents of various kinds: Motor cars 22 (22), trolley cars 5 (4), railroads 15 (11), teams 2 (4), elevators 2 (1), accidental inhalation of illuminating gas 10 (5). 325 (311) deaths occurred among children under one year of age. 783 (776) deaths occurred among persons over 50 years of age.

Diseases causing death are tabulated under fourteen general headings comprising 189 different diseases. All death returns are forwarded to the State Registrar of Vital Statistics for approval and registration, and physicians will avoid much annoyance if due care is exercised in filling out the death returns. Indefinite terms, terminal conditions or symptoms, and secondary infections are all unsatisfactory as causes of death, and should not be used except as contributory. The original disease, or in deaths following surgical operations, the pathological condition for which the operation was performed, should be stated.

In addition to the above, the value of the complete classification used in the yearly report depends upon a correct diagnosis of the existing disease, and although mistakes are inevitable and many cases are only seen in a moribund state, no death return should be made without careful consideration, in order that the accuracy of the statistics may show the same improvement in the future as they have since the present classification was adopted.

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BIRTHS, DEATHS, STILLBIRTHS AND MARRIAGES WITH POPULATION AND RATES PER 1,000 OF POPULATION.

Years	Population	Births, Stillbirths excluded	Deaths, Stillbirths excluded	Stillbirths	Marriages	Birth Rate	Death Rate	Marriage Rate
1900	*62,059	1,562	1,143	49	640	25.16	18.41	10.31
1901	64,412	1,527	933	49	642	23.73	14.48	9.96
1902	66,854	1,681	1,025	49	701	25.14	15.33	10.48
1903	69,389	1,758	1,100	53	726	25.33	15.85	10.46
1904	72,020	1,682	1,149	72	686	23.35	15.95	9.52
1905	*73,540	1,879	1,120	71	800	25.55	15.22	10.87
1906	76,255	1,863	1,136	69	934	24.43	14.89	12.24
1907	78,707	2,061	1,302	63	1,156	26.18	16.54	14.68
1908	81,425	2,219	1,334	82	943	27.25	15.03	11.58
1909	84,237	2,371	1,309	65	1,064	28.14	15.53	12.63
1910	*88,926	2,562	1,481	94	1,170	28.81	16.65	13.15
1911	92,048	2,582	1,412	104	1,274	28.05	15.33	13.84
1912	96,973	2,876	1,445	95	1,147	29.65	14.90	11.82
1913	100,877	2,964	1,464	100	1,260	29.38	14.51	12.49
1914	104,949	3,077	1,521	146	1,226	30.71	14.49	11.68
1915	*102,971	3,268	1,511	115	1,185	31.73	14.67	11.50
1916	106,365	3,453	1,741	131	1,554	32.46	16.36	14.61
1917	117,058	3,485	1,865	159	1,680	29.77	15.93	14.35

*Official.

COMPARISON OF DEATHS FROM PRINCIPAL DISEASES IN PERCENTAGES PER 1,000 POPULATION BY YEARS.

Causes	1912	1913	1914	1915	1916	Average 1912–1916 inc.	1917
Anterior Poliomyelitis,	.103	.009	.019	.029	.206	.073	.068
Apoplexy,	1.04	.743	.943	.854	.967	.909	.854
Bright's Disease (Chronic),	1.76	1.358	1.791	1.407	1.763	1.615	1.383
Cancer,	.968	1.1	.886	1.068	1.099	1.024	1.007
Diphtheria,	.154	.158	.123	.097	.169	.140	.546
Diabetes,	.267	.208	.152	.242	.253	.224	.239
Enteritis (under 2 years),	.886	.812	.79	.747	.798	.806	.734
Heart Disease,	1.43	1.328	1.305	1.640	1.691	1.478	1.819
Measles,	.092	.089	.085	.029	.131	.085	.051
Pneumonia,	.74	.921	.924	.980	1.249	.962	1.059
Scarlet Fever,	.02	.029	.009	.009	.028	.019	.051
Tuberculosis (Pulmonary),	.76	.722	.886	.786	.620	.754	.854
Typhoid Fever,	.15	.198	.209	.106	.046	.141	.059
Whooping Cough,	.134	.059	.019	.174	.018	.08	.025
Suicides,	.22	.158	.104	.155	.150	.157	.093
Traumatism,	.43	.396	.340	.640	.629	.487	.649
Homicides,	.06	.059	.019	.029	.056	.044	.042

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TABLE SHOWING MORTALITY IN PERCENTAGES PER 1,000 INHABITANTS FOR ALL DISEASES AT DIFFERENT AGE PERIODS, BY YEARS.

Age Period	YEARS						
	1912	1913	1914	1915	1916	Average 1912-1916 inc.	1917
Under 1	2.908	2.924	2.706	2.680	2.922	2.828	2.775
1	.515	.386	.428	.582	.638	.509	.538
2	.154	.198	.161	.232	.187	.186	.204
3	.165	.118	.066	1.45	.216	.403	.145
4	.082	.137	.057	.058	.131	.093	.128
5–9	.237	.287	.238	.194	.338	.258	.649
10–14	.123	.168	.238	.233	.225	.197	.316
15–19	.319	.327	.285	.301	.300	.306	.239
20–29	1.165	.921	1.019	.990	1.061	1.031	1.246
30–39	1.124	1.209	1.352	1.048	1.569	1.260	1.332
40–49	1.629	1.397	1.448	1.485	1.475	1.4868	1.665
50–59	1.557	1.486	1.666	1.776	1.616	1.620	1.725
60–69	1.948	1.863	2.	1.796	2.461	2.013	1.964
70–79	1.814	1.942	1.8	1.980	2.067	1.920	1.802
Over 80	1.114	1.130	1.019	1.174	1.146	1.122	1.195

Respectfully submitted,

THOMAS F. REARDEN, M.D.,
EDGAR H. GUILD, M.D.,
PHILIP V. ERARD,
Board of Health.

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PLANNING COMMISSION.

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CITY PLANNING COMMISSION

MEMBERSHIP

EX-OFFICIO MEMBERS

Mayor,
FRANK E. STACY.

President of Board of Aldermen,
GILES BLAGUE.

President of Common Council,
ALBERT D. SHAW,
CHRISTOPHER G. SIMPSON.

CITIZEN MEMBERS.

	Term Expires
CHARLES H. PARSONS,	October 1, 1918.
STANFORD L. HAYNES,	October 1, 1917.
J. FRANK DRAKE,	October 1, 1919.
WILLIAM M. STEVENSON,	October 1, 1920.
KURT R. STERNBERG,	October 1, 1921.

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FINANCIAL STATEMENT

NOVEMBER 30, 1917.

RECEIPTS.

Appropriation,		$340 00

EXPENDITURES.

Printing,	$58 17	
Postage,	15 00	
All other items,	4 40	
		77 57
Unexpended balance,		$262 43

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CITY PLANNING COMMISSION

SPRINGFIELD, MASS., December 31, 1917.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

In accordance with the ordinance creating this Commission, we beg to submit herewith our fourth annual report covering the year December 1, 1916, to November 30, 1917.

WIDENING OF SOUTH MAIN STREET.

In 1916, the City Planning Commission presented to the City Council a report, copy of which is appended to the report of the Commission for 1916, recommending the widening of South Main street. This report was made after consultation with the Board of Public Works, who concurred in its recommendations. In due time, hearings were held and a report made to the City Council by the Board of Public Works, as a result of which the widening of South Main street has been ordered from Central street southerly to Locust street. This widening provides for a width of 72 feet between the property lines and will afford much needed relief to a very congested portion of the city's main thoroughfare, the average width of the section affected being only about 60 feet prior to the passage of the widening order.

WIDENING OF LOCUST STREET.

In 1916, the City Planning Commission embodied in the above mentioned report for the widening of South Main street a recommendation for the widening of Locust street between South Main street and Mill street. Following the presentation of said report, several petitions were presented to the City Council and referred to the Board of Public Works, asking for the widening of Locust street and also for the establishment of building lines. The Board of Public Works has not yet presented its report thereon, but is expected to do so in the very near future. It is probable that the most feasible plan will be to establish building lines and thus provide for the widening at some future date,

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rather than attempt it at the present time. In the opinion of the City Planning Commission, the important thing is to make a provision whereby no buildings will be erected to interfere with the future widening.

EXTENSION OF LOCUST STREET TO WATER STREET.

In 1916, the City Planning Commission presented to the City Council a report recommending the extension of Locust street westerly to the intersection of Gardner street and Pecousic avenue. The petition for said extension was presented to the City Council and referred to the Board of Public Works, and the latter board has given hearings upon the question of convenience and necessity. The petition still remains in the hands of the Board of Public Works at the present time. The Commission feels that this extension of Locust street to Water street is greatly to be desired and could be done at a comparatively small expense. It is hoped that in the very near future a report may be forthcoming from the Board of Public Works, and if such report is favorable, that the City Council will see fit to order the extension.

STEARNS PARK.

Improvement to Stearns Park, referred to in our reports for the years 1914, 1915, and 1916, has not yet been made. The necessary money was appropriated to be expended in 1917, but with the entrance of the United States into the world war, the Park Commission felt it unwise to make these improvements and they will probably not be carried out until after the war closes.

BILLBOARD ORDINANCE.

In 1916, the Commission presented to the City Council a report on Billboards and accompanied it with a proposed Billboard Ordinance, which was drawn up after the most exhaustive study and consideration. This report and ordinance have never been acted upon by the City Council, and, in the opinion of the Commission, this is greatly to be regretted, because the matter of regulation of Billboards is something that should be taken up and acted upon vigorously and at the earliest possible moment. The Commission has no pride of opinion as to the particular form of ordinance recommended by it, but is extremely anxious that some ordinance upon this subject be passed. In this the Commission believes that it represents the desire of a large majority of Springfield's citizens.

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MAPS AND CHARTS AND TOPOGRAPHICAL SURVEY.

Numerous maps and charts have been prepared with considerable care by the Commission with the assistance of the Department of Streets and Engineering. These maps and charts contain extremely valuable information, which can be utilized to advantage by the city in planning for future development. The titles of these maps and charts are as follows:—

1.—Radial Thoroughfares.
2.—Main Thoroughfares.
3.—Circumferential Thoroughfares.
4.—Sewerage System.
5.—Trolley Transportation System.
6.—Water Distribution System.
7.—Area Served by Trolley.
8.—Parks and Playgrounds.
9.—Schoolhouses.
10.—Developed and Undeveloped Section.
11.—Assessed Valuations.
12.—Springfield Streets.

The Department of Streets and Engineering has been working, for two or three years now upon a topographical survey of Springfield, and it is now about 70% completed. The City Council very wisely granted an increased appropriation for 1917, for the carrying on of the work and it is hoped that appropriations for this work will be continued until it is all completed. The value of an accurate topographical survey is inestimable, because the actual beginning of a city plan cannot be attempted until such a survey is available.

CITY PLAN.

Now that the various maps and charts referred to have been provided and the completion of topographical survey practically assured in the near future, little is now needed to furnish skilled advisers with all the material necessary to actually prepare a comprehensive city plan. That such a plan is needed becomes increasingly evident as the years go by, and it would be of great advantage to Springfield and other municipalities if an act would be passed by the legislature giving authority to boards of survey, or city planning boards, or some similar body, sufficient to compel all persons engaged in real estate development to conform to a general city plan that the city may see fit to adopt.

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GENERAL COMMENT.

During the past year the term of Mr. Stanford L. Haynes as a member of the Commission expired and no one has been appointed to fill his place. In October, Commissioners Charles H. Parsons and Kurt R. Sternberg presented their resignations, but their successors have not yet been appointed. The loss of these three citizens on the Commission will be keenly felt, because they have given of their time most generously and have been glad to make whatever sacrifice might be called for, in order to discharge the duties of their office properly and effectively. It is to be hoped that their successors will be appointed without further delay, because otherwise the work of the Commission will be seriously hampered. In order that such a board as the City Planning Commission may attain the maximum amount of accomplishment, it is necessary to have the fullest co-operation of the chief executive of the city and all others of authority, and the Commission trusts that such co-operation may be had in the future to an even greater degree than in the past.

Respectfully submitted,

WM. M. STEVENSON,
J. FRANK DRAKE,
City Planning Commission.

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BUILDING DEPARTMENT.

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EIGHTH ANNUAL REPORT

OF THE

BUILDING DEPARTMENT

SPRINGFIELD, MASS., December 31, 1917.

To the Honorable City Council of the City of Springfield, Mass.

GENTLEMEN:—Only in times of peace do the arts really flourish. During the first five months of the past year Springfield was displaying its usual amount of energy and enterprise, covering vacant lots with substantial buildings, and making many existing buildings more serviceable and beautiful. When, in April, a state of war was declared, and intelligence of the existing conditions slowly dawned upon us, building construction suddenly decreased, until to-day the people of Springfield in common with others throughout the country are performing only such building operations as are necessary for our immediate requirements.

The national government has done a tremendous amount of new construction work. Hundreds of millions have been spent for steel, and lumber, and skilled labor. The government activities are not recorded by the municipal building departments. We will only know how much has been expended when the records become available.

Even if the war should continue several years longer, the government's urgent demand for new buildings will shortly be well supplied. It will then be easier for private enterprises to obtain structural shapes of steel, lumber, and other building materials. But the government's necessities must come first.

The demand for accommodations, both for business and housing, is growing more imperative every day. Building activities should be briskly renewed not later than early spring. Such enterprises should receive all the moral and financial support that their merit justifies.

SAFE FLOOR LOADS.

The department has spent much time examining and surveying the construction, particularly the floors, of warehouses, factories, etc. One

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hundred forty-seven (147) notices have been placed, giving the safe loads of the floors in such buildings.

DANGEROUS BUILDINGS.

Five (5) buildings have been found to be in a dangerous condition. Three (3) of these, at the request of the commissioner, have been demolished, and the others have been made safe.

HOTELS AND LODGING HOUSES.

In compliance with the State Laws, this department, in the month of April, inspected twenty (20) hotels and forty (40) lodging houses, containing in all two thousand seven hundred eighty-two (2,782) rooms, and reported the condition of each to the State District Police.

Thirteen (13) special inspections of lodging houses have been made in co-operation with the Police Department and the Board of Health.

ELEVATORS.

Six hundred seventy-three (673) elevators are in use in this city at the present time. Twenty-two (22) are now being installed. Seven (7) old elevators have been removed.

Two fatalities have occurred in elevator shafts during the year. These were not attributed to any defects in the elevators.

Three hundred ninety (390) certificates have been issued.

Two hundred thirty-eight (238) licenses have been issued to elevator operators. Four of these were issued to women who have only recently engaged in this occupation.

FIRE ESCAPES.

The fire escapes throughout the city are now in very good condition. One hundred thirty-six (136) have been inspected. Twenty-three (23) were found defective or in need of a coat of paint, and the owners have been notified.

SIGNS.

The City Council has granted permits for fifty-three (53) signs which project over the public highways. Indemnity agreements for these have been filed by their owners with the Building Commissioner.

The Building Department has issued permits for sixty-two (62) advertising signs. Twenty-seven (27) of these were placed flat against

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the building, and nine (9) were projecting over private property. Twenty-six (26) signs were illuminated by electricity.

ELECTRICAL INSTALLATIONS.

The number of inspections made by the electrical inspectors is only slightly less than the unusually high record of a year ago.

Seven thousand four hundred sixty-five (7,465) inspections have been made. Two thousand five hundred sixty (2,560) permits have been issued to one hundred twenty-two (122) different contractors. One thousand three hundred forty-five (1,345) permits have been issued to the United Electric Light Company for service meters.

PLUMBING.

The number of regular inspections made by the plumbing inspectors is slightly more than for last year; the special inspections nearly 60% less. The number of fixtures installed is approximately 25% less than the high record for last year.

During the year the Plumbing Rules and Regulations have been revised and rewritten. They were approved by the Board of Health September 21st, last. They have been printed, and about three hundred (300) copies have been distributed among the masters and journeymen and others who are interested. The new Rules and Regulations will become effective January 1, 1918.

THE TABLES.

The following tables give in detail the activities of the Building Department for the year 1917.

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BUILDING OPERATIONS BY THE CITY OF SPRINGFIELD, MASS.

New Buildings.

Ward 5—Summer Street,	Storage Building,	$300
Ward 6—Pecousic Avenue,	Storage Building,	600
Ward 6—Pecousic Avenue,	Wayfarers' Lodge,	20,000
Ward 1—Armory Street,	School (Portable),	1,500
Ward 7—Oakland Street,	School (Portable),	2,800
Ward 3—Howard Street,	Coal Pocket,	2,500
Ward 4—Hickory Street,	Bath House,	2,400
Ward 8—Pasco Road,	Bath House,	1,200
Ward 7—Washington Street,	School Building,	112,000
Ward 8—Carew Street,	School Building,	75,000
Park Department,	Storage Buildings (16),	560
Total,		$218,860

Additions and Alterations.

Ward 1—Boylston Street,	Addition—Storage,	$24,000
Ward 1—Plainfield Street,	Addition—School,	92,964
Ward 5—Eastern Avenue,	Alteration—School,	340
Ward 7—Oakland Street,	Alteration—Fire Station,	790
Ward 8—Oak Street, I. O.,	Addition—Fire Station,	21,910
Ward 6—Acushnet Avenue,	Alteration—School,	365
Ward 8—Boston Road,	Addition—School,	4,000
Ward 1—Chestnut Street,	Alteration—School,	10,390
Ward 5—Eastern Avenue,	Alteration—School,	4,997
Ward 7—White Street,	Alteration—School,	250
Ward 8—Homer Street,	Alteration—School,	250
For various additions and alterations to School Buildings,		20,000
Total,		$180,256
Total for New Buildings and Additions,		$399,116

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BUILDING PERMITS GRANTED

From Jan. 1 to Dec. 31, 1917.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Bakery,					1								1
Bank,			1										1
Bath Houses,				2								2	4
Church,											1		1
Day Nursery,					1								1
Factories,				1		2						2	5
Garages,	8	8	38	62	53	29	35	24	43	34	19	5	358
Garage and Office,				1									1
Garage and Stable;					1								1
Hall and Lodge Rooms,				1									1
Hotel and Stores,			1										1
Houses—two family,	8	6	13	11	7	6	11		2		5	1	70
Houses—one family,	13	7	12	44	33	17	11	11	9	11	8		176
School Buildings,				1						1		1	3
Schools (Portable),							3						3
Stables,				1					1		1		3
Storage Buildings,	1	2	5	2	4	11	7	6	5	8	6	1	58
Stores,					2	1						1	4
Store and Lunch Room,							1						1
Tenements,	2		3	6	6	6	2		1	1	2		29
Warehouses,	1		1	1									3
Additions and Alterations,	25	19	63	62	47	35	36	45	41	19	30	29	451
Miscellaneous,	2		2	3	4	2	2	1	4	2		1	23
Totals,	60	42	139	198	159	109	108	87	106	76	72	42	1,199

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ESTIMATED COST OF NEW BUILDINGS From Jan. 1 to Dec. 31, 1917

Week	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	$15,500	$5,000	$4,912	$72,925	$24,450	$26,500	$51,000	$4,350	$3,300	$900	$12,000	$[illegible]	$[illegible]
2	72,000	1,000	895	90,305	70,650	14,500	9,710	600	22,000	350	19,000	600	[illegible]
3		4,200	330,000	36,200	112,550	103,100		625	6,000	900	300	300	[illegible]
4	1,135	300	6,560	26,350	9,850	75	150	1,375	6,950	6,775	3,650	2,600	[illegible]
5		200	600	109,400	51,850	600	4,200		100	6,950	150		[illegible]
6	48,300	1,500	300	149,015	1,975	22,900	540	225	300	1,500	2,350		[illegible]
7	39,400	8,500	64,760	109,805	89,350	45,725	16,500	10,250	40,300	139,150	21,125	3,800	[illegible]
8	39,650	29,675	48,815	89,060	111,025	109,400	41,500	26,250	28,405	13,610	24,350	81,750	[illegible]
Totals	$217,185	$50,465	$456,842	$783,060	$471,650	$323,100	$123,600	$43,885	$111,405	$169,085	$80,025	$91,150	$2,831,147

NOTE:—In addition to the above, "Verbal Permits" have been given (and recorded) for 130 building operations, costing less than $25.00 each and aggregating $2,706.00.

COMPARATIVE STATISTICS.

Table showing the comparative number and cost of building operations since the creation of the Building Department.

	New Buildings	Cost	Additions and Alterations	Cost	Total Costs
1910*	194	$1,410,892	89	$83,043	$1,493,935
1911	704	4,230,140	505	605,823	4,835,963
1912	870	5,507,434	619	785,000	6,292,434
1913	763	4,259,378	566	788,087	5,047,465
1914	851	4,020,873	641	1,035,369	5,056,242
1915	936	5,529,357	559	532,824	6,062,304
1916	1,122	6,258,980	573	842,052	7,101,032
1917	748	2,834,457	451	946,166	3,780,618

*For three months only (Oct., Nov., Dec.).

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ESTIMATED COST OF ADDITIONS AND ALTERATIONS

From Jan. 1 to Dec. 31, 1917.

WARD	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	$50	$101,439	$2,550	$1,800	$2,025	$36,520	$900	$2,475	$51,525	$6,950	$4,175	$610	$211,019
2	5,580	300	26,150	5,425	1,050	4,575	10,655	635	1,090	2,360	1,190	400	59,410
3	89,225	2,100	219,430	31,219	8,150	12,255	17,100	25,850	6,675	4,650	3,920	4,375	424,949
4	340	250	3,100	8,240	5,300	5,150	150	800	3,775	770	300	1,650	29,825
5	350		11,650	325	1,330	1,000	5,722	20,100	1,150	425	2,813	1,500	46,365
6	2,900	1,150	700	200	3,150	1,500	3,365	20,490	1,000	350	1,575	350	36,730
7	700	1,288	1,700	2,700	775	965	4,140	1,125	1,595	300	150	500	15,938
8	4,100	5,250	17,240	6,690	1,710	39,060	4,750	29,475	1,950	100	2,800	7,794	120,919
Totals	$103,245	$111,777	$282,520	$56,599	$23,490	$101,025	$46,782	$100,950	$68,760	$15,905	$16,923	$17,179	$945,155

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ESTIMATED COST OF NEW BUILDINGS—From Jan. 1 to Dec. 31, 1917.

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	$15,800	$5,000	$4,912	$72,925	$24,450	$26,800	$51,000	$4,350	$3,300	$960	$12,900	$6,000	$228,397
2	72,900	1,090	895	90,305	70,600	14,500	9,710	600	22,050	550	19,000	645	302,845
3		4,200	330,000	36,200	112,550	103,100		625	6,000	900	300	500	594,375
4	1,135	300	6,560	26,350	9,850	75	150	1,575	6,950	6,775	5,650	2,400	67,770
5		200	600	109,400	51,850	600	4,200		100	6,950	150		174,050
6	48,300	1,500	300	149,015	1,975	22,900	540	225	300	1,200	2,350		228,605
7	39,400	8,500	64,760	109,805	89,350	45,725	16,500	10,250	46,390	139,050	21,125	5,860	596,715
8	39,650	29,675	48,815	89,060	111,025	109,400	41,500	26,260	26,405	13,610	24,550	81,750	641,700
Totals	$217,185	$50,465	$456,842	$583,060	$471,650	$323,100	$123,600	$43,885	$111,495	$169,995	$86,025	$97,155	$2,834,457

NOTE:—In addition to the above, "Verbal Permits" have been given (and recorded) for 136 building operations, costing less than $25.00 each and aggregating $2,706.00.

COMPARATIVE STATISTICS.

Table showing the comparative number and cost of building operations since the creation of the Building Department.

	New Buildings	Cost	Additions and Alterations	Cost	Total Costs
1910*	194	$1,410,892	89	$83,043	$1,493,935
1911	704	4,230,140	505	665,823	4,895,963
1912	870	5,507,434	619	785,060	6,292,494
1913	763	4,259,378	566	788,087	5,047,465
1914	851	4,020,873	641	1,035,369	5,056,242
1915	936	5,529,357	559	532,824	6,066,394
1916	1,122	6,258,980	573	842,052	7,101,032
1917	748	2,834,457	451	945,155	3,782,318

*For three months only (Oct., Nov., Dec.).

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ESTIMATED COST OF ADDITIONS AND ALTERATIONS

From Jan. 1 to Dec. 31, 1917.

WARD	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	$50	$101,439	$2,550	$1,800	$2,025	$36,520	$900	$2,475	$51,525	$6,950	$4,175	$610	$211,019
2	5,580	300	26,150	5,425	1,050	4,575	10,655	635	1,090	2,360	1,190	400	59,410
3	89,225	2,100	219,430	31,219	8,150	12,255	17,100	25,850	6,675	4,650	3,920	4,375	424,949
4	340	250	3,100	8,240	5,300	5,150	150	800	3,775	770	300	1,650	29,825
5	350		11,650	325	1,330	1,000	5,722	20,100	1,150	425	2,813	1,500	46,365
6	2,900	1,150	700	200	3,150	1,500	3,365	20,490	1,000	350	1,575	350	36,730
7	700	1,288	1,700	2,700	775	965	4,140	1,125	1,595	300	150	500	15,938
8	4,100	5,250	17,240	6,690	1,710	39,060	4,750	29,475	1,950	100	2,800	7,794	120,919
Totals	$103,245	$111,777	$282,520	$56,599	$23,490	$101,025	$46,782	$100,950	$68,760	$15,905	$16,923	$17,179	$945,155

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BUILDING OPERATIONS—BY WARDS

	Wards								
	1	2	3	4	5	6	7	8	Totals
Bakery,		1							1
Bank,			1						1
Bath Houses,	1							3	4
Church,		1							1
Day Nursery,				1					1
Factories,	1	1	1					2	5
Garages,	34	28	11	27	28	21	106	103	358
Garage and Office,	1								1
Garage and Stable,	1								1
Hall and Lodge Rooms,			1						1
Hotel and Stores,			1						1
Houses—two-family,	10						30	30	70
Houses—one-family,	9						77	90	176
School Buildings,	1						1	1	3
Schools (Portable),	2						1		3
Stables,	2							1	3
Storage Buildings,	5	6		2	2	5	8	30	58
Stores,			3					1	4
Store and Lunch Room,		1							1
Tenements,	9	1	1	3	2	4	5	4	29
Warehouses,		2					1		3
Miscellaneous,	1	3	3	4	2	2		8	23
Additions and Alterations,	62	52	112	41	41	33	43	67	451
Totals,	139	96	134	78	75	65	272	340	1,199

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CLASSIFICATIONS OF BUILDINGS

	Number		Cost	
	Brick	Wood	Brick	Wood
Bakery,	1		$65,000	
Bank,	1		125,000	
Bath Houses,		4		$8,600
Church,	1		16,500	
Day Nursery,	1		26,000	
Factories,	4	1	139,000	57,000
Garages,	195	163	248,152	50,535
Garage and Office,	1		15,000	
Garage and Stable,	1		4,700	
Hall and Lodge Rooms,	1		35,000	
Hotel and Stores,	1		175,000	
Houses—two family,		70		302,450
Houses—one family,	2	174	4,500	530,050
School Buildings,	3		232,000	
Schools (Portable),		3		5,775
Stables,	1	2	1,000	960
Storage Buildings,	11	47	19,100	11,670
Stores,	3	1	82,250	1,800
Store and Lunch Room,	1		8,500	
Tenements,	7	22	315,000	136,200
Warehouses,	2	1	95,000	3,000
Additions and Alterations,	164	287	814,031	131,124
Miscellaneous,	13	10	107,640	12,075
Totals,	414	785	$2,528,373	$1,251,239

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INSPECTIONS BY THE BUILDING INSPECTORS

Table showing number of inspections each month, and for what purpose.

	New Buildings	Alterations Additions	Specials	Fires	Fire Escapes	Totals
January,	504	105	25	1		635
February,	308	77	27	4		416
March,	354	17	41	4		416
April,	305	106	82		1	494
May,	445	159	38	2		644
June,	427	124	27			578
July,	408	96	28			532
August,	353	126	24			503
September,	327	102	32		134	595
October,	444	169	32	1	1	647
November,	304	68	59	3		434
December,	199	88	63	1		351
Totals,	4,378	1,237	478	16	136	6,245

VIOLATIONS REPORTED AND CORRECTED.

Building without a permit,	61
Defective construction,	1
Dangerous buildings,	5
Dangerous chimney,	1
Flue lining omitted,	5
Woodwork placed against chimney,	6
Omission of fire stops,	25
Lathing without notification or permission,	20
Heater installed without permit,	83
Omission of shields over heaters and smoke pipes,	34
Woodwork too near heater and smoke pipe,	5
Fire doors omitted,	19
Omission of ladder to scuttle,	6
Miscellaneous,	205
Total,	476

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NUMBER OF STEAM BOILERS INSTALLED

From Jan. 1 to Dec. 31, 1917.

	Wards								
	1	2	3	4	5	6	7	8	Totals
January,	7	2	2	2	3	1	47	17	81
February,	16	1	5	1	6	7	8	18	62
March,	6		5			1	16	14	42
April,	1		2		2	1	6	7	19
May,	5		1	1	1	4	11	14	37
June,	3	4	3	1			27	4	42
July,	1	2	2		6	1	3	8	23
August,					1		3	4	8
September,	3	2			1		5	1	12
October,	8		3	4	4	7	20	15	61
November,	6	1	4	9	8	3	9	12	52
December,	2	3	2	1		4	17	2	31
Totals,	58	15	29	19	32	29	172	116	470

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NUMBER OF HEATING FURNACES INSTALLED

From Jan. 1 to Dec. 31, 1917.

	Wards								
	1	2	3	4	5	6	7	8	Totals
January,					1			7	8
February,	3			6	8	4		20	41
March,								8	8
April,							1	3	4
May,							4	10	14
June,						2	31	11	44
July,								4	4
August,	2						2	8	12
September,	1						2	1	4
October,	1			1	3	2	1	1	9
November,	3	1	4	1	11	1	8	8	37
December,	16			6			3		25
Totals,	26	1	4	14	23	9	52	81	210

Note—Permits have been granted for the installation of three bake ovens.

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ELEVATOR INSPECTIONS

From Jan. 1 to Dec. 31, 1917.

	Hydraulic Passenger	Hydraulic Freight	Electric Passenger	Electric Freight	Hand Power	Dumb Waiter	Belt Elevators	Special Inspections	Totals	Written Reports	Defective Elevators
January,....	9	13	6	6	1	5	16	31	87	56	27
February,...	7	19	10	6		8	1	20	71	51	16
March,.....	6	30	2	4	1	8	10	31	92	61	32
April, ...	4	30	8	8	2	5		19	76	57	21
May,.....	3	18	5	7	5	6	15	21	80	59	35
June,.....	1	19	4	24	4	3	8	24	87	63	22
July,.....	2	22	5	10		3	18	18	78	60	31
August,.....		7	3	14	3	21	7	18	73	55	17
September,..		8	1	6		3	10	24	52	28	15
October,....	22	13	9	7		10	1	25	87	62	23
November,..	8	20	9	8		9	4	33	91	58	19
December,..	8	21	10	6	2	2	6	24	79	55	25
Totals, ...	70	220	72	106	18	83	96	288	953	665	283

NOTE: During the year seven elevators have been removed and twenty-four new elevators installed; six hundred and seventy-three are now in use, and twenty-two are now being installed. Three hundred and ninety certificates have been issued.

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ELECTRICAL INSPECTIONS

Table showing number of inspections made from Jan. 1 to Dec. 31, 1917.

Inspections	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations,	316	231	307	311	345	322	315	282	307	372	249	158	3,515
Old installations,	18	19	12	16	23	16	13	5	20	15	23	29	209
Additions and alterations,	197	142	281	218	212	196	135	152	198	194	227	187	2,339
Temporary work,	3	2	1	7	7	5	8	5	5	9	1	9	62
Fixtures,	96	94	120	102	161	119	100	84	114	128	98	72	1,288
New electric signs,	6	5	11	3	4		2	7	4	1	4	5	52
Totals,	636	493	732	657	752	658	573	535	648	719	602	460	7,465

Table showing number of defective installations discovered and corrected during the year from Jan. 1 to Dec. 31, 1917.

Defective Installations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations,	89	49	92	78	119	82	89	53	88	74	62	37	912
Old installations,	9	12	9	10	15	13	13	3	18	13	18	20	153
Additions and alterations,	56	22	16	43	44	30	37	25	45	30	46	36	430
Temporary work,										3		2	5
Fixtures,	32	14	22	26	53	18	32	11	39	44	22	23	336
New electric signs,	2												2
Totals,	188	97	139	157	231	143	171	92	190	164	148	118	1,838

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PLUMBING

Table showing number of Permits, Inspections, and Violations—1917.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits for work in new buildings,	31	38	43	48	65	43	46	23	22	28	16	14	417
Permits for work in old buildings,	40	32	50	46	70	46	45	38	38	44	46	21	516
Regular inspections,	316	263	278	313	370	380	302	308	292	330	333	215	3,700
Special inspections,	40	22	64	43	40	66	17	17	46	13	12	132	512
Violations,	3	6	5	3	7	5	5	2	7	6	7	5	61

Table showing number of Fixtures installed during 1917.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Water closets,	117	154	288	156	212	227	220	126	91	72	146	165	1,974
Lavatories,	125	130	349	143	288	191	267	276	53	46	98	169	2,135
Baths,	59	59	249	118	131	124	135	62	46	54	41	151	1,229
Laundry trays,	48	56	195	115	124	126	118	61	24	47	42	20	976
Sinks,	62	77	245	131	156	164	157	82	51	60	93	32	1,310
Urinals,	12	13	2	4	23	14	11	2	3	4	24		112
Totals,	423	489	1,328	667	934	846	908	1609	268	283	444	537	7,736

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GAS FITTING

Table showing number of Permits, Inspections, and Violations—1917.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits—New Buildings,.....	35	39	30	47	47	41	25	22	11	22	16	13	348
Permits—Old Buildings,.....	13	5	14	20	11	16	20	15	16	17	10	12	163
Permits—Gas Fixtures,.....	10	16	13	11	23	8	15	11	11	12	7	8	145
Permits—Water Heaters,.....	11	21	13	50	59	41	42	27	21	25	26	25	361
Inspections—Piping and Fixtures,..	249	181	240	383	316	296	316	249	155	166	100	62	2,713
Inspections—Water Heaters,.....	20	16	41	34	67	44	65	33	22	41	43	21	447
Special Investigations,.....	25	18	23	10	12	17	22	27	17	22	49	74	316
Violations,.....	12	1	25	17	14		9	5	4	13	11	7	118

NOTE:—During the year, four hundred and seventy-two certificates have been issued to the Springfield Gas Light Co. for meters and service.

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PROSECUTIONS.

Only one prosecution has been made during the year. The owner of a building situated within the fire limits reshingled its roof with wooden shingles in violation of the law, but recovered them with slate after he had received a summons to appear in Court. At the hearing the case was ordered "continued from day to day."

BOARD OF APPEAL.

The Report of the Board of Appeal is printed on the following page.

Copies of the decisions of the Board, in which the details are given, can be procured at the Building Department.

Respectfully,

FRED W. LUMIS,
Building Commissioner.

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REPORT

OF THE

BOARD OF APPEAL

SPRINGFIELD, MASS., December 28, 1917.

Honorable City Council, City of Springfield.

GENTLEMEN:—The Board of Appeal begs leave to submit herewith its annual report to your Honorable Body.

The Board has held during the past year two meetings, one in January, the other in August, at which hearings were given as to the use of asphalt roofings on first and second class buildings and on frame buildings.

No other business has come before the Board for its consideration.

Respectfully submitted,

D. W. MELLEN,
THOS. J. O'BRIEN,
G. C. GARDNER, *Chairman,*
Springfield Board of Appeal.

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DEPARTMENT OF LAW.

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REPORT

OF THE

DEPARTMENT OF LAW

To the City Council:—

As required by the provisions of the ordinance establishing the law department I hereby transmit to the city council a report of the business done by the department during the last year.

At the beginning of the year the city was a party in seventy-five cases, classified as follows:—

Land-damage and water-damage cases arising from the construction of the new water works,	23
Land-damage cases arising from the taking of lands for public improvements,	24
Actions of tort for personal injuries resulting from alleged defects in highways,	16
Actions of contract for the collection of money due the city,	7
Petitions for writs of certiorari,	2
Miscellaneous,	3
Total,	75

During the year thirty-six more cases have been begun, classified as follows:—

Land-damage cases arising from the taking of lands for public improvements,	10
Actions of tort for personal injuries resulting from alleged defects in highways,	13
Actions of contract for the collection of money due the city,	3
Actions of contract against the city,	7
Petitions for writs of certiorari,	2
Miscellaneous,	1
Total,	36

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There are now pending seventy-seven cases, classified as follows:—

Land-damage and water-damage cases arising from the construction of the new water works,	18
Land-damage cases arising from the taking of lands for public improvements,	28
Actions of contract for the collection of money due the city,	5
Actions of tort for personal injuries resulting from alleged defects in highways,	18
Petitions for writs of certiorari,	2
Miscellaneous,	6
Total,	77

Eight cases have been tried during the year and twenty-six cases have been settled. Five important water department cases which have been pending for some time were settled during the year and it is expected that most of the remaining actions will be adjusted during the coming year.

The city solicitor and assistant city solicitor were present at five meetings of the board on claims, during which sixty-one claims which might have led to suits were disposed of. There are now pending thirty-six small matters before the board.

Thirty-one written opinions have been furnished the mayor and other officials, boards or committees on subjects touching the duties of their respective offices.

Contracts, bonds, deeds, obligations, and other legal instruments to the number of two hundred and sixty-nine, which have been required in the city's business, have been drawn.

Eleven ordinances have been scrutinized and approved.

The city solicitor drafted three petitions to the legislature for legislation, and bills accompanying the same, all of which were enacted. They are the act enabling the city to borrow money outside the debt limit for the Dwight street widening and two acts permitting the city to take land beyond the two acres limit for schoolhouse purposes, one for the Balliett School on upper Carew street and the other for an addition to the Technical High School. In connection with these matters and others in which the city was interested he appeared before committees of the legislature thirteen times.

In the summer the Springfield Street Railway Company filed with the Public Service Commission a new tariff increasing fares on some parts of its system. The Commission gave hearings on the question of the approval of the new tariff. The case developed into a contest between

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Springfield and the other towns served by the company over the fares within the central Springfield zone being substantially a circle with a radius of two and a half miles from Court Square. All parties practically conceding that the railway company must have more revenue. The towns advocated that the fare for the central zone be raised to six cents. The city by resolution of the city council took the stand that there should be no increase. Hearings were held in Boston on sixteen different days beginning August 22 last and ending January 5 current, at which the city solicitor was in attendance, representing the city. Decision of the case has not yet been made.

The litigation over the allowance of the will of the late Everett H. Barney and the action of the court on the report of the Connecticut River bridge commission are two other important matters which have required considerable time and attention of the city solicitor. Both of these matters are still pending.

Respectfully submitted,

CHARLES H. BECKWITH,
City Solicitor.

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PARK COMMISSIONERS.

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REPORT

OF THE

PARK COMMISSIONERS

SPRINGFIELD, MASS., December 18, 1917.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

As required by the revised laws of the Commonwealth of Massachusetts of 1902, Chapter 28, Section 13, entitled "Of Public Parks, Playgrounds and Public Domain," the Board of Park Commissioners of the City of Springfield have the honor to submit their thirty-fifth (35th) annual report, for the year ending November 30, 1917.

The board was organized for the year with Stanhope E. Blunt, president, and Charles E. Ladd, secretary; the present members of the board being Stanhope E. Blunt, Nathan D. Bill, Theodor R. Geisel, Charles Adams, and Dwight R. Winter.

The financial statement for the year shows an unexpended balance of $19,561.30, and represents in a substantial way the results of our efforts for economy. Many improvements and activities which we had planned to carry out, and for which an appropriation had been made, were omitted. We believe that under the present condition of the world, with patriotic appeals pouring in from all sides urging the people to help and save, the policy of this department should be one consistent with the great needs and in harmony with the spirit of the times.

Notwithstanding the fact that but few improvements were made during the year, we are pleased to report a most satisfactory year in what has been accomplished. The most important event, and one which marks an epoch in the history of this department, has been the acquisition of nearly two hundred (200) acres of land as an addition to Forest Park. This land is located just south and west of the park and is made up of beautiful ravines, some of which are heavily wooded, and long sloping hillsides extending to the valley below, through which runs Pecousic brook. This land is remarkably well adapted for park purposes. The gratifying feature in connection with this extension is the fact that the greater portion of this land has been donated. Mr. Rudolph C.

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Born, who owns a beautiful estate adjoining the park on the west, very generously gave twenty-one (21) acres of land, while Mr. James B. Burbank gave about one hundred (100) acres. Of the remaining land which is included in the extension, twenty-one (21) acres were purchased from Messrs. Upton and Baker, and the balance containing thirty-nine (39) acres was taken by condemnation proceedings, as no satisfactory agreement could be reached with the parties owning this tract. This action on the part of Messrs. Born and Burbank is deserving of more than passing mention, and their names should be added to those who through their donations have made it possible for the people of Springfield to have this beautiful park.

Plans for the development of this new addition have already been approved, and contemplate the building of a boulevard drive beginning at the easterly end of Forest Glen road, following the contour of the slopes overlooking the valley and extending to Converse street. Also the building of a causeway across Pecousic valley and flooding about forty (40) acres, forming a beautiful lake. A drive will be built on the shores of this lake. The carrying out of these improvements will cover a number of years, and the cost will not be burdensome to the taxpayers.

This department has been called upon to take part in many activities which under normal conditions and in time of peace would not have been deemed advisable or even necessary. The great emphasis placed on the necessity for conservation and production, especially as relating to food stuffs, were some of the things that appealed to this board. Believing that great good could be accomplished by urging and assisting our people so far as practical to plant vegetable gardens, and in order to stimulate the interest and encourage them in this undertaking, it was decided to allow them to have the free use of all the available land, both at Forest Park and at Gurdon Bill Park, suitable for garden purposes. These gardens were called War Emergency Gardens. The Committee on Food Production and Conservation and the Hampden County Inprovement League co-operating with this department employed an expert garden supervisor, paid out of an appropriation made by the city, who worked with the employees of this department, and who rendered valuable service to those having gardens, many of whom had absolutely no knowledge of agriculture. There were 420 war gardens at Forest Park and 40 at the Gurdon Bill Park. The results were very satisfactory, especially with those at Forest Park, where more than 6,000 bushels of potatoes were raised, while cabbages, beets, turnips, and other winter vegetables were produced in large quantities, to say nothing of the perishable vegetables

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raised for immediate use. The results at the Gurdon Bill Park were not as satisfactory as at Forest Park. This was in no way due to any lack of interest or attention on the part of those having gardens, but rather to the lack of sunlight on account of the number of shade trees at this park.

As a real and concrete example in agriculture, and to show what can be produced on a small plot of ground by adopting up-to-date and scientific methods, a demonstration garden was conducted at Forest Park. This garden was 51 by 55 feet in size, and produced enough vegetables to supply the Home for Friendless Women from July to October, with the exception of potatoes. A daily average of 20 persons were served at this institution, receiving not less than three kinds of vegetables with their dinner, and oftentimes one or more kinds were served at supper in the form of salads. In addition to the vegetables that were used on the table there were 104 quart jars canned, 37 quarts of cucumbers pickled, and 15 gallons of assorted pickles, besides a quantity of squash, celery, and other vegetables for winter use. But this is not all that should be said in favor of the home or small garden. It encourages thrift and shows the people how to utilize their leisure time in doing those things that are worth while.

The improvements at Forest Park have been confined principally to road work, tree planting, and the removal of many dead trees. The work on Long Hill street, started a year ago, has been completed with the exception of the planting, and this will be done in the spring. Several of the roads at the park have been treated with a coat of Tarvia. This serves as a dust layer, and at the same time binds the surface and prevents it from raveling. The policy of reforestation adopted two years ago has been continued, and many trees have been set out. This is one of the imperative needs of the park, and we trust this work may continue for many years.

The improvements at Van Horn Reservoir Park have been very similar to those made at Forest Park, and consisted of road work and tree planting. The roads at this park are built of cinders, and in the course of a short time these cinders become ground to a fine powder, making the road very dusty. In order to overcome this objection an experiment was made with Tarvia. Two applications were made, applying sand after the second coat, and using a roller to smooth the road. The result was very satisfactory and removes the one great objection to the use of cinders for park roads.

The small parks throughout the city have received their usual care and attention.

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In the Division of Recreation we are pleased to report a very satisfactory year. The increased attendance and the interest manifested by the children fully testify to the success of the playgrounds. In our report a year ago we recommended "a broader and more comprehensive plan of activities for the social centers," but on account of present conditions and a possible shortage of coal we have decided to omit the social centers for the coming winter. During the year seventeen playgrounds and two swimming pools were in operation, which under present conditions we believe are sufficient. The attendance at the swimming pools was very satisfactory, and at times the accommodations were inadequate to accommodate the crowds seeking this wholesome form of recreation. This condition was a rare exception rather than a common occurrence, and we do not feel justified in urging an appropriation for increased accommodations.

Below is the financial statement for the year:—

GENERAL FUND.

RECEIPTS.

Appropriation,	$151,597.97	
Available for re-appropriation,	329.67	
		$151,927.64

EXPENDITURES.

Parks, Administration,	$14,729.51		
Operation,	82,203.45		
		$96,932.96	
Playgrounds, Administration,	$1,825.89		
Operation,	18,058.00		
		19,883.89	
Property improvement,		8,554.27	
New equipment,		6,542.12	
Drinking fountains,		453.10	
		$132,366.34	
Unexpended balance,		19,561.30	
			$151,927.64

VAN HORN SPECIAL APPROPRIATION.

Receipts, Balance from 1916,	$1,272.55

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SPECIAL FUNDS.

COURT SQUARE EXTENSION.

Receipts, Balance from 1916, . .	$30,509.49	
Interest, ...	1,166.90	
		$31,676.39
Expenditures, Labor, ...	$87.05	
Unexpended balance, . .	31,589.34	
		$31,676.39

SHERMAN D. PORTER FUND.

Receipts, Balance from 1916, . .	$10,293.53	
Interest, ...	411.74	
		$10,705.27

GURDON BILL FUND.

Bequest of Gurdon Bill, . . .	$5,000.00	
Interest, ...	180.67	
		$5,180.67
Expenditures, Material, . . .	$ 286.40	
Unexpended balance, . .	4,894.27	
		$5,180.67

HELEN M. HOSLEY FUND.

Receipts, Balance from 1916, . .	$4,628.13	
Interest, ...	154.27	
		$4,782.40

M'KINLEY MONUMENT FUND.

Receipts, Balance from 1916, . .	$618.33	
Interest, ...	20.61	
		$638.94

WM. H. SMITH FUND.

Receipts, Balance from 1916, . .	$614.82	
Interest, ...	20.50	
		$635.32

CHARLES S. MARSH FUND.

Receipts, Balance from 1916, . .	$312.21	
Interest, ...	10.41	
		$322.62

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GERRISH PARK FUND.

Receipts, Balance from 1916, . . $586.01

STANHOPE E. BLUNT,
NATHAN D. BILL,
THEO. R. GEISEL,
CHARLES ADAMS,
DWIGHT R. WINTER,
Board of Park Commissioners.

CHARLES E. LADD, *Secretary.*

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LICENSE COMMISSIONERS.

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REPORT

OF THE

BOARD OF LICENSE COMMISSIONERS

SPRINGFIELD, MASS., December 1, 1917.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

The Board of License Commissioners beg to submit their annual report for 1917.

The Licenses granted to date, to expire May 1, 9118, are as follows:—

COMMON VICTUALERS—FIRST CLASS.

To sell liquors of any kind to be drunk on the premises. Fee, $1,500 each.

Beach & Kane,	173 Chestnut street.
Biscotti, Frank,	202-206 Dwight street, Biscotti Cafe Co.
Breglio, P. A., & Co.,	347-349 Dwight and 319-323 Worthington streets.
Bresnahan, Jas. F., & Co.,	483 Main and 18 Market streets.
Bresnahan & Buckley,	734-736 Main street.
Burke, Thos. J., & Co.,	521 Main and 4 Stockbridge streets.
Burke & Glynn,	514 Worthington street.
Cone, Wm. H., & Co.,	11 Hampden street.
Coughlin, John H.,	116 State street.
Crowley, M. J., Co., Inc.,	485 State and 3 Walnut streets.
Cunningham & LaChapelle,	64 Bridge and 71 Water streets.
Delaney, Bernard J., Co.,	603 Main street.
Donovan, J. B., & Co.,	23 Walnut street.
Donovan, M. J., & Co.,	179 Main and 11 Ferry streets.
Duquette, A. H., & Co.,	552 Main street.
Farland, Fred, & Co.,	547½ Main and 4 Cross streets.
Guyott & Co.,	225 Main street.
Hohenberger, H. S., & Co.,	121 Water street.
Joslin, A. A., & Co.,	208 Worthington street.
Kelley, John B., & Co.,	167 Bridge street.
Kernan, Jas. F.,	642 North and 173 Sharon streets.
Lange, Theodor, & Co.,	249 Bridge street.
Lennehan, J. J., & Co.,	215-217 Worthington street.

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Lubold, H. E., & Co.,	11 Lyman street.
Maloney, Patrick F.,	50 Sanford and 64 Dwight streets.
Maloney, James, & Co.,	27 Market and 15 Sanford streets.
Murphy, C. J., & Co.,	329 Worthington street.
Murphy, J. J., & Co.,	8 Walnut street.
Murphy, The Wm. J., Co.,	45-47 Market street.
O'Brien, The P. J., Co., Inc.,	685 North & 89 Congress streets.
Pessolano & Mazzaferro,	333 Water street.
Reidy, John A., & Co.,	157 Main & 10 Sharon streets.
Roos, Maximilian, & Co.,	69 Water street.
Scully, J. F., & Co.,	660½ Main street.
Schenck, Wm. A., & Co.,	3-5-7 Court and 50 Market streets.
Shea, J. J., Co., Inc.,	864 North and 86 Essex streets.
Splaine Bros.,	12 Sanford and 34 Market streets.
Sullivan, Daniel F.,	282 Main street, I. O.
Sullivan, P. F., Co., Inc.,	209 Chestnut and 131 Lyman streets.
Sullivan & O'Connor Co., Inc.,	190 Main street.
The Sullivan Co., Inc.,	196 Ferry and 609 North streets.
Toole, John J., & Co.,	69-71-73 Market street.
Toomey & Cody Co., Inc.,	143 Main and 8 Congress streets.
Ward, Wm. T., & Co.,	201 Main and 4 Liberty streets.
Welch, T. P., & Co.,	193 Main street.
Winkler Bros.,	63 Bridge and 79 Water streets.
Young, Wm. M., & Co.,	145 Main and 7 Congress street.
Zimmerman, Louis B.,	121 Lyman street.

Number of First Class Licenses, 48.

WHOLESALE—FOURTH CLASS (CLASS W).

To sell liquors of any kind not to be drunk on the premises. Fee, $2,000 each.

Barry, Garratt S.,	271 Bridge and 6-8 Barnes streets.
Coates, E. M., Co., Inc.,	5-11 Market street.
Jefferson & Deeley,	214 Worthington street.
Kushner, Isaac,	169½ Main street.
Rieutord, Chas. E.,	146 Main and 18 Oak streets, I. O.
Tone, Phil, & Co.,	591 Main and 125 Union streets.
Toomey & Cody Co., Inc.,	135-141 Main street.
Young, Wm. M.,	147-147½ Main street.

Number of Wholesale Licenses, Class W, 8.

FOURTH CLASS (CLASS R).

To sell liquors of any kind not to be drunk on the premises. Fee, $1,500 each.

Albano Bros.,	732 Main and 5 Lombard streets.
Beach & Kane,	171A Chestnut street.

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Breglio, P. A., & Co.,	343-345 Dwight street.
Brewer, H. J., & Co.,	404 Dwight and 67-73 Taylor streets.
Burke, Thos. J., & Co.,	517 Main street.
Cornell, S. A., Co., Chas. Ballard, Trustee,	119 Lyman street.
Curran, Wm. J., & Co.,	25 Market and 17 Sanford streets.
Delaney, Bernard J., Co.,	599 Main street.
Dillon, James F., & Co.,	704 Main street.
Doyle, Geo. W., Co.,	560 Main street.
Flanaghan, T., & Co.,	100 State street.
Glickman, Henry J., & Co.,	188 Main street.
Hiltz, M. E.,	74 Water street.
Leonard, John J., & Co.,	296 N. Main street.
McNamara, Dennis, & Co.,	282-286 Main street, I. O.
Murphy, C. J., & Co.,	333 Worthington street.
Murphy, The Wm. J., Co.,	17 E. Court street.
Ryan, S. A., & Co., Inc.,	183 Main street.
Shea, M. F., Co.,	850-854 North and 83 Essex streets.
The Howard Co.,	21-23 Lyman street.
Walsh, John J., & Co.,	25 Walnut street.

Number of Fourth Class Licenses, Class R, 21.

BREWERS—FIFTH CLASS.

Fee, $2,700 each.

Springfield Breweries Co., Liberty Branch,	Liberty and Charles streets.
Springfield Breweries Co., Springfield Branch,	Fort and Water streets.
Springfield Breweries Co., Highland Branch,	1273 State street.

Number of Brewers' Licenses, 3.

INNHOLDERS—FIRST AND FOURTH CLASSES.

To sell liquor of any kind. Fee, $2,250 each.

Bellevue Hotel Co.,	267-269 Main street, 4-6 Taylor street.
Chandler Hotel, Louis Katz,	Main and Bliss streets.
Court Square Hotel,	92-96 State street and 12-14 Court House place.
Empire Hotel Co.,	657-659-659½ Main street.
Gilmore Hotel Co.,	418-428 Main street.
Hampden Hotel Co.,	Hotel Kimball, Chestnut and Bridge streets.

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Hartenstein, Louis B.,	Russell Hotel, 224-226-230 Main street.
Hartt, John E., & Co.,	93-95 State street.
Henking Hotel Co.,	15½-15-17 Lyman street.
Indian Leap Hotel Co.,	179 Main street, I. O.
McCarthy, J. J., & Co.,	The Grand Hotel, 241-243 Worthington street and 18-26 Stearns Park.
National House, Chas. Grise & Co.,	13 Oak street, I. O.
Seiver, D. H., & Co.,	Hillman and Barnes streets.
Shean, C. T., & Co.,	Cooley Hotel, 211 Main street.
The New Haynes Hotel Co.,	8-10-12 Pynchon and 400 Main streets.
Worthy Hotel, Inc.,	303 Main and 169-187 Worthington streets.

Number of Innholders' Licenses, 16.

DRUGGISTS—SIXTH CLASS.

To sell liquors of any kind for medicinal, mechanical, and chemical purposes only. Fee, $1.00 each.

Adams, Chas. F.,	54 Walnut street.
Adams Drug Co., Inc.,	429 Main street.
Anderson, Edmund C.,	279 N. Main street.
Arnold, E. T.,	377-379 Main street.
Barker, Irving R.,	32 Main street.
Bartlett, John L.,	749 Sumner avenue.
Beehn, August,	809 Liberty street.
Beauvais, Fortunat,	510 North Main street.
Beauvais, Joseph H.,	570 Main street.
Blanc, Neil,	728 North street.
Cabana, Geo.,	298 Franklin street.
Campbell, Edward T.,	643 Main street.
Chenette, Joseph E.,	164 Main street, I. O.
Clancy, Daniel M.,	152 Main street, I. O.
Dearborn, Harold W.,	1081 State street.
DeFrate, Channing,	463 Main street.
Delehanty, James W.,	492 Mill street.
Delehanty & Clark,	803 Belmont avenue.
Dickinson, Homer F.,	298 Belmont avenue.
Dooley, Timothy,	267 Central street.
Elsey, Harry P.,	593 Main street.
Erard, Philip V.,	398 N. Main street.
Hayn, Herman,	807 Main street.
Johnson, Marshall R.,	188 State street.
Jorczak, J. S.,	2 Parker street, I. O.
Keefe, Daniel F.,	180 Hancock street.
Leary, Arthur J.,	296 Hancock street.

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Leighton, Percy,	21 White street.
Leonard, Edwin F.,	72 Main street.
Lerche, Albert,	325 Main street.
Levin, Abram,	1332 North street.
Lohr, Albert N.,	438 Chestnut street.
McCarthy, Thomas F.,	512 Sumner avenue.
McGinty, Edward,	188 Eastern avenue.
McGinty, John A.,	561 Worthington street.
Mongeau, Paul,	218 Main street, I. O.
Murphy, John J.,	155 Sherman street.
Nagle, Wm. S.,	59 Sumner avenue.
Noble, Wm. B.,	167 Chestnut street.
O'Connell, J. W., Inc.,	477 State street.
O'Connor, Thos. F.,	272 Worthington street.
Pheulpin, E. J.,	236 N. Main street.
Rearden, Mrs. Theresa,	369 Chestnut street.
Roger, Robert,	308 Main street.
Rudden, Eugene,	591 Liberty street.
Ryan, Chas. V.,	194-196 Main street.
Sadler, W. M. L.,	530-532 Main street.
Shea, Stephen A.,	827 State street.
Slavin, Wm. J., Eastern Drug Co.,	228 Eastern avenue.
Smith, Fred H., Treas.,	372 Belmont avenue.
Smith, John D.,	271 Main street.
Sunter, Alex. E.,	85 Wilbraham road.
Sunter, William,	165 Oakland street.
Sweeney, Edward J.,	428 Plainfield street.
Taylor, Albert W.,	326 N. Main street.
Terney, Louis B.,	1171 North street.
Thompson, F. W.,	503 Main street.
Vezina, Raoul J.,	441 Armory street.
Volley, Alice W. S.,	360 Bay street.
Welch, John H.,	554 Belmont avenue.
Wheeler, Fred N.,	802 State street.

Total number of Druggists' Licenses, 61.

DRUGGISTS—SIXTH CLASS.

Issued between December 1, 1916, and May 1, 1917.

January 4, 1917,	Albert E. Lohr,	443 Chestnut street.
January 4, 1917,	John J. Murphy,	155 Sherman street.
January 23, 1917,	Channing DeFrate,	463 Main street.
March 2, 1917,	John D. Smith,	279 Main street.

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CLUB LICENSES.

To distribute and dispense intoxicating liquors to members. Fee, $300 each.

Colony Club,	50 Maple street.
Nayasset Club,	61-67 State street.
Springfield Lodge of Elks, No. 61,	311 State street.
Springfield Turnverein,	79-83 State street.

Total number of Club Licenses, 4.

Number of First, Fourth, and Fifth Class Licenses,	96
Number of Sixth Class Licenses,	61
Number of Club Licenses,	4
Total number of Licenses,	161

There were 183 Special Sunday Licenses granted for the sale of ice cream, candy, fruit, etc., on the Lord's Day, at $5.00 each. Also 138 Common Victualers' and 6 Innholders' Licenses at $5.00 each.

Meetings were held January 4 and 23; February 9 and 20; March 2; April 2, 3, 5, 24, and 30; May 2 and 29; June 1 and 29; September 14; October 17; November 21, 1917.

On January 4, 1917, Sixth Class Druggists' License held by Albert F. Lohr, to be exercised at 438 Main street, was cancelled, and Sixth Class Druggists' License granted to Albert F. Lohr, to be exercised at 433 Chestnut street.

On January 23, 1917, First Class Liquor License granted to Frank J. Walsh & Co., and exercised at 3-5-7 East Court and 50 Market streets, was cancelled. First Class Liquor License granted to August Kilian & William A. Schenk, to be exercised at 3-5-7 East Court and 50 Market streets.

Sixth Class Druggists' License granted to Frank S. Stone and exercised at 463 Main street, was cancelled. Sixth Class Druggists' License granted to Channing DeFrate to be exercised at 463 Main street.

On February 20, 1917, Board granted permission to Toomey & Cody Co., Inc., to store intoxicating liquors at the Bay State Storage & Warehouse Co., located at 385 Liberty street, subject to laws governing such permits.

On March 2, 1917, First Class Liquor License held by Wm. T. Ward & Co., and exercised at 6-6½ Liberty street, was transferred to premises at 201 Main and 4 Liberty streets.

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Sixth Class Druggists' License granted to John D. Smith and exercised at 271 Main street, was cancelled. Sixth Class Druggists' License granted to John D. Smith to be exercised at 279 Main street.

Club License granted to the B. K. Bruce Club, and exercised at 542 Main street, was suspended indefinitely.

On April 2, 1917, Board granted permission to S. A. Ryan & Co., Inc., to store intoxicating liquors at the Bay State Storage & Warehouse Co., located at 385 Liberty street, subject to laws governing such permits.

On April 24, 1917, Special Sunday License granted to Chas. S. Harriss, and exercised at 774 Liberty street, was revoked.

On May 29, 1917, Sixth Class Druggists' License granted to Philip V. Erard, and exercised at 398 N. Main street, was suspended indefinitely.

Board granted permission for use of additional entrance at 1 East Court street to Ulysses E. Fortier, holder of Sixth Class Druggists' License, exercised at 429 Main street.

Fourth Class W. Liquor License held by Garratt S. Barry, and exercised at 271 Bridge and 6-8 Barnes streets, was transferred to premisses at 253 Bridge street.

Board granted permission to Garratt S. Barry to store intoxicating liquors at the Bay State Storage & Warehouse Co., located at 385 Liberty street, subject to laws governing such permits.

On June 29, 1917, Sixth Class Druggists' License granted to P. A. Leighton, and exercised at 21 White street, was suspended.

Board granted permission to The Hotel Worthy Co., Inc., to store intoxicating liquors at the Bay State Storage and Warehouse Co., located at 385 Liberty street, subject to laws governing such permits.

Board granted permission to M. F. Shea Co., 850-854 North street, to store intoxicating liquors at the Bay State Storage & Warehouse Co., located at 385 Liberty street, subject to laws governing such permits.

On October 17, 1917, Board granted First Class Liquor License, Fourth Class Innholders' Liquor License, and Innholders' License to John J. McCarthy, Bertram J. Craig, and George A. Williams, to be exercised at the Grand Hotel, 241-243 Worthington street and 18-26 Stearns Park place.

On November 21, 1917, Sixth Class Druggists' License granted to Albert E. Taylor, and exercised at 326 N. Main street, was cancelled. Sixth Class Druggists' License granted to L. W. Knight, to be exercised at 326 N. Main street.

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Sixth Class Druggists' License granted to Edmund C. Anderson, and exercised at 279 N. Main street, was cancelled. Sixth Class Druggists' License granted to John P. McHugh, to be exercised at 279 N. Main street.

Board voted to rebate John J. McCarthy & Co. ($1,125.00) part of License Fee paid City Treasurer under protest.

The expenses of the Board for the year were as follows:—

Salary,	$250.00
Salary of Clerk,	150.00
Printing,	86.85
Total,	$486.85

Respectfully submitted,

GEORGE G. TAIT,
HUGH J. DONNELLY,
FREDERICK J. HILLMAN,
Board of License Commissioners.

GEORGE G. TAIT, *Secretary.*

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CITY CLERK'S REPORT..

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CITY CLERK'S REPORT

CITY CLERK'S OFFICE, ADMINISTRATION BUILDING,
January 7, 1918.

To the City Council of the City of Springfield:—

I herewith submit the following report for the year ending November 30, 1917.

The amount of fees received by me for official services, from December 1, 1916, to December 1, 1917, is as follows, said sum having been paid by me to the City Treasurer:—

For marriage certificates,	$1,526.00
For kerosene and gasoline certificates,	4.00
For recording and indexing dog licenses,	459.20
For itinerant vendors' licenses,	71.20
For copies of record,	226.75
For examining record,	.75

For recording and indexing the following papers:—

Agreements,	$0.50
Assignments of claims,	1.20
Assignments of contracts,	.75
Assignments of liens,	.25
Assignments of mortgages,	20.65
Assignments of sales,	.25
Voluntary assignments,	14.00
Assignments of wages,	9.00
Attachments of personal property,	2.50
Bills of sale,	44.50
Contracts,	3.20
Renewals of contracts,	.25
Discharges of bills of sale,	.25
Discharges of contracts,	.25
Discharges of leases,	.50
Discharge of married women's certificates,	.25
Discharges of mortgages,	73.05
Leases,	38.60
Levies,	.25
Marriage records,	9.00
Married women's certificates,	14.50
Mortgages on personal property,	481.25
Notices,	.25

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Notices of foreclosure,	$4.80
Physician's certificates,	55.75
Interest,	36.21
Witness fees,	.60
	$3,100.46

There has been paid to the County Treasurer the sum of $5,157.80, being the amount due the County of Hampden for dog licenses, less fees for recording, from December 1, 1916, to December 1, 1917.

The sum of $1,842, amount due for four hunters' licenses at $10 each, and 1,802 at $1.00 each, has been paid to the state.

ELIJAH A. NEWELL,
City Clerk.

SPRINGFIELD, MASS., January 7, 1918.

I hereby certify that the foregoing report of the City Clerk is correct, as per his records and receipts on file in his office.

WM. G. McINTYRE,
City Auditor.

The number of marriage intentions filed during the year is	1,554
The number of marriages for the year is	1,750
The number of deaths for the year is	2,205
The number of births for the year is	3,800

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VOTERS AND REGISTRATION.

The following table shows the number of men and women who registered as voters in 1916 and 1917:—

1916.					1917.				
Ward.	Precinct.	Men.	Women.	Total.	Ward.	Precinct.	Men.	Women.	Total.
1	A	110	1	111	1	A	84		84
1	B	118	4	122	1	B	80		80
1	C	99	3	102	1	C	65		65
1	D	71	1	72	1	D	26		26
2	A	81	1	82	2	A	73		73
2	B	86	1	87	2	B	60		60
2	C	85	2	87	2	C	101		101
2	D	74	0	74	2	D	68		68
2	E	63	2	65	2	E	39		39
3	A	51	0	51	3	A	96		96
3	B	89	1	90	3	B	67		67
3	C	62	1	63	3	C	60		60
3	D	73	2	75	3	D	75		75
4	A	69	5	74	4	A	40		40
4	B	86	1	87	4	B	68		68
4	C	64	1	65	4	C	50		50
4	D	47	2	49	4	D	46	1	47
5	A	55	2	57	5	A	46		46
5	B	28	7	35	5	B	20		20
5	C	35	3	38	5	C	29	2	31
5	D	66	7	73	5	D	49		49
6	A	48	1	49	6	A	48		48
6	B	44	5	49	6	B	44		44
6	C	49	4	53	6	C	27		27
6	D	41	1	42	6	D	27		27
7	A	47	0	47	7	A	40		40
7	B	64	3	67	7	B	29		29
7	C	61	1	62	7	C	35		35
7	D	73	2	75	7	D	33	2	35
8	A	31	0	31	8	A	35		35
8	B	68	0	68	8	B	45		45
8	C	85	7	92	8	C	27		27
8	D	69	3	72	8	D	47		47
8	E	61	1	62	8	E	33		33
8	F	53	0	53	8	F	21		21
		2,306	75	2,381			1,733	5	1,738

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The following table shows the number of assessed polls and the number of men and women on the voting list at the city elections December, 1916 and 1917:—

1916.					1917.				
Ward.	Precinct.	Assessed Polls.	Men.	Women.	Ward.	Precinct.	Assessed Polls.	Men.	Women.
1	A	1,148	595	4	1	A	1,335	642	4
1	B	955	620	17	1	B	1,080	654	17
1	C	1,046	660	25	1	C	1,241	682	23
1	D	775	519	17	1	D	837	517	16
2	A	1,168	581	26	2	A	1,387	583	22
2	B	1,195	579	18	2	B	1,396	567	16
2	C	2,025	631	9	2	C	2,083	619	7
2	D	933	550	10	2	D	1,109	611	12
2	E	928	585	28	2	E	1,059	604	24
3	A	713	393	6	3	A	784	435	5
3	B	1,089	521	50	3	B	1,291	536	49
3	C	947	442	54	3	C	958	428	43
3	D	1,474	564	27	3	D	1,586	584	31
4	A	895	614	80	4	A	992	612	72
4	B	1,168	651	25	4	B	1,266	680	19
4	C	1,003	603	25	4	C	880	590	26
4	D	871	623	33	4	D	967	606	36
5	A	1,045	637	65	5	A	1,287	659	65
5	B	581	516	127	5	B	636	495	114
5	C	789	540	86	5	C	792	526	71
5	D	1,044	584	90	5	D	1,187	614	90
6	A	961	433	9	6	A	1,065	465	8
6	B	736	481	44	6	B	777	478	37
6	C	775	627	68	6	C	850	648	65
6	D	699	543	40	6	D	735	531	41
7	A	834	610	13	7	A	954	642	10
7	B	693	550	27	7	B	744	594	24
7	C	790	605	13	7	C	877	627	12
7	D	901	657	12	7	D	1,014	728	18
8	A	402	248	5	8	A	715	317	5
8	B	872	510	21	8	B	992	510	20
8	C	836	533	39	8	C	905	517	32
8	D	1,051	665	16	8	D	1,119	705	21
8	E	957	511	12	8	E	1,033	504	9
8	F	1,187	357	0	8	F	1,421	357	1
		33,436	19,338	1,141			37,354	19,867	1,065

Respectfully submitted,

ELIJAH A. NEWELL, *City Clerk.*

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PUBLIC SAFETY.

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REPORT

OF THE

COMMITTEE ON PUBLIC SAFETY

SPRINGFIELD, MASS., December 20, 1917.

To the City Council.

GENTLEMEN:—The committee on public safety respectfully presents this report of its doings to the end of the fiscal year November 30, 1917.

April 23d, 1917, shortly after the United States declared war against Germany this committee was appointed by the mayor. It will be well to recall what the situation was at that time. There was in the calm judgment of most of us a feeling of serious apprehension of imminent danger of plots and outrages from German sympathizers and light-headed irresponsible persons. The meeting had already been held in the auditorium at which several hundred citizens enrolled in the home defense league with the serious expectation that they might be called upon to do patrol duty for the protection of property and the maintenance of law and order. The governor had already appointed the committee of one hundred, the public safety committee for the commonwealth, and that committee was daily, by letter and by personal representatives, calling upon the mayor for action of one kind or another in the public welfare. The board of trade had appointed a number of emergency committees, and committees and organizations of various kinds were coming into existence daily in the patriotic enthusiasm of the people to serve in the time of emergency.

Under these circumstances the mayor saw fit to appoint this committee with two main objects in view, one, to relieve himself to some extent of the demands on his time that the details of all of this work were making, and the other, to attempt to increase efficiency by increasing cooperation and decreasing duplication of endeavors.

In this state of affairs this committee took up its work. For a considerable time the members met daily, taking lunch together. The committee's first step was to recommend the appointment of several auxiliary committees. In determining the number of committees and the functions of each we were guided largely by the recommendations of the com-

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mittee on public safety for the commonwealth. We will take these committees up in order and briefly outline what they have done.

HOME DEFENSE LEAGUE

Before we were appointed a military committee had been in existence for some little time and a home defense league started. On the recommendation of this committee the mayor appointed a new committee on the home defense league made up of the following members: Col. Jenness K. Dexter, Chairman, John H. Boyle, William Butement, L. B. Clark, Theodor R. Geisel, Cornelius C. Hastings, Charles B. Hitchcock, Robert N. Ingersoll, Edward J. Leyden, Fred A. Luther, Thomas F. McGlynn, Albert W. Nason, William J. Quilty, George U. Readio, Elmer H. Root, Kurt R. Sternberg, David A. Turner, Frank A. Wakefield, Harry C. Wakefield, Francis M. Waters, Herbert P. Ward, Ernest A. Witt, Fred L. Wood and Dr. Abram C. Williams.

The committee on the home defense league proceeded promptly to cause the organization of several companies of volunteers who with other companies that had already been organized were brought into cooperation with the work of the committee and began regular drilling. There were fourteen companies in all. Their work was promptly, systematically and enthusiastically done and was maintained until the apprehension which made it seem advisable for them to be organized was happily shown to be unfounded. About four hundred and fifty of these volunteers qualified as special policemen and thereby came within the jurisdiction of the police department and subject to the orders of the chief of police. These special policemen have been at all times and are to-day subject to be called upon for duty by the chief of police. Most of the companies of the home defense league have discontinued drilling. Many of its members have enrolled in the state guard; in fact most of those who have enrolled in the state guard were members of some company of the home defense league.

COMMITTEE ON FOOD PRODUCTION AND CONSERVATION

At the beginning there were appointed a committee on food production and a committee on food conservation but it soon became apparent that it would be better to have the work of both committees done by one and the following committee was appointed: Harry G. Fisk, Chairman, Joshua L. Brooks, Luman S. Brown, Robert C. Cooley, Frederic W. Fuller, Adolph W. Gilbert, August H. Goetting, Richard Hooker, Charles E. Ladd, Theodore W. Leete, Harold A. Ley, G. Frank Merriam, Horace A.

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Moses, Emerson W. Oatley, William H. Parks, Henry J. Perkins, Kenneth Robbie, Maurice S. Sherman, Charles C. Spellman, George H. Wrenn, Wilbur F. Young and Dr. Herbert C. Emerson.

Between May 14th and May 26th with a view to bringing to the attention of the people the fact that if care were used in the purchase and economy in the use of food nutritious meals could be served at low cost, a diet squad was conducted for two weeks at the high school of commerce and their menus and the cost of the same were published daily in the newspapers.

When Mr. Hoover requested the registration of all of the housewives in the city to assist in his national program of food conservation the committee secured the cooperation of the national league for woman's service in making the canvass and over 10,000 registered as willing to cooperate with the national food administrator.

The committee maintained a tent on Court Square from June 29th to September 7th in which daily lectures and demonstrations were given of methods of preparing and preserving different kinds of fruits and vegetables to audiences numbering from 50 to 100. Similar work was carried on during substantially the same period in eight schoolhouses in various parts of the city.

The committee assisted residents who planted gardens. Garden plots cultivated at Forest Park, the Springfield Hospital grounds, the Gurdon Bill plot on Liberty Street and elsewhere about the city, numbered 3,042, representing a cultivation of slightly over 266 acres and an increase over the previous year of about 165 acres. To assist these people three agricultural experts were employed each for a period of six months and each was supplied with an automobile in which to make his rounds. Those gardeners who desired them were supplied with signs reading thus:

NO TRESPASSING UNDER PENALTY OF THE LAW
WAR EMERGENCY GARDEN
SPECIAL PROTECTION

which were posted on the plots.

Many of the amateur gardeners were unable to get fertilizers and seeds which they needed. The committee took the matter up with the department of agriculture at Washington and the needs were met.

In June there was a threatened danger of a shortage of jars for canning fruits and vegetables. The committee purchased a carload and offered them to the public at cost.

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To influence farmers to increase their acreage by protecting them on prices the committee had prepared sale and purchase contracts for the future delivery of potatoes and beans and secured the execution of a large number of the same.

In the early period of our work there was much discussion among members of our committee and of the committee on food production and conservation and people of the Hampden county improvement league and others, on the question of the wisdom of increasing food production by conducting farming operations on a large scale. Many owners volunteered the use of their land for the purpose. To many it seemed wiser to extend financial assistance to men already in the farming business and a movement was successfully carried through by a citizens' committee and this committee in cooperation which resulted in the extension of $100,000 of credit to farmers throughout the county on condition that such assistance be used in increasing their acreage. Nevertheless many others felt that it was wise to carry on farming operations directly. The committee on food production and conservation accordingly has carried on a farm of about fifty-eight acres at Ludlow, not so much because it felt that the product of fifty-eight acres would be a substantial increase to the food supply of the community as that it believed that the problem should be tried out with the view to obtaining data for use in determining the best course to be pursued next year. The results of this experiment were not pleasing. The planting was late and the frost was early and there was considerable damage to the crops. We have learned a lesson and will not try to run a farm next season.

COMMITTEE ON RECRUITING FOR THE REGULAR ARMY

In June recruiting of volunteers for the regular army was alarmingly meager and the president consequently designated the week of June 23d through June 30th to be devoted to making a drive to secure more recruits. The week previous the committee on public safety of the commonwealth sent a representative to Springfield to urge that certain definite measures be taken to increase recruiting in this vicinity and this was in consequence of an urgent request sent to that committee from the secretary of war and the council of national defense. This committee recommended and you appointed the following committee for the purpose on June 22d: Col. Jenness K. Dexter, Chairman, James Brewer Corcoran, Harold Durant, Lewis W. Grout, G. T. Knoll, Jr., Charles C. McElwain, D. N. Munroe, Albert W. Nason, Arthur D. Neff, Ralph H. Paige, Philip

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C. Powers, Samuel F. Punderson, Maj. J. A. Ruggles, William S. Warriner, Phelps Brown.

The committee conducted a strenuous campaign for the whole week holding two rallies a day on Court Square besides rallies at other points throughout the county with results that were of value to the United States recruiting officers for that week and the immediate future.

COMMITTEE TO COOPERATE WITH THE MILITARY AUTHORITIES

The committee was made up of the following men: William P. Hayes, Chairman, Harry S. Baldwin, Herbert L. Handy, George M. Hendee, John C. Robinson, Charles B. Whitney.

Shortly after the Second Regiment was called into active service it was ordered to recruit to substantially double its previous strength and upon consultation with the officers of the regiment it was found that in their judgment certain things should be done which they were unable to do because of lack of an appropriation by the government for the purpose. The committee assisted by providing a banner that was hung across Main Street near the Post Office to encourage recruiting. It secured automobiles fitted out with patriotic signs and banners which carried recruiting parties to other towns in the vicinity and it supplied hand-bills for use in that campaign.

In June the national authorities who had been enlisting recruits for the navy ordered about forty such recruits to rendezvous in Springfield to be taken to their destination. The committee supplied a substantial lunch, cigars and cigarettes to these recruits while in Springfield. They performed similar service for other parties of like nature on similar occasions.

In June our Second Regiment was guarding the bridges of the Boston & Albany Railroad from Warren to Chester. It was the duty of the chaplain and medical officers of the regiment with headquarters in Springfield to visit these several points in the performances of their duties. The government provided them with no means of transportation. It was found that these officers were using their own automobiles and paying the expense of gasoline, oil and tires from their own funds. The machine gun company was not provided by the government with similar supplies and the members were paying for the same from their own funds. A similar situation existed with regard to ambulances and automobiles that were being used in the supply service. This committee deemed that in view of the personal sacrifices these men were making by entering the service

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it was especially unjust that they should have to pay these expenses. Consequently the committee to cooperate with the military authorities, with the approval of the officers of the regiment, saw that these supplies were provided, making arrangements with the Fisk Rubber Company and with S. J. Cordner Company whereby the committee obtained for this purpose, tires and supplies at prices below market rates.

COMMITTEE ON SOCIAL WELFARE OF SOLDIERS

The following were appointed to the committee: Edward S. Bradford, Chairman, Mrs. Henry G. Chapin, Mrs. Waldo L. Cook, Clifton A. Crocker, James L. Doherty, Miss Annie I. Berry, Hon. Wallace R. Heady, Harold A. Ley, Miss Bertha M. McConkey, Miss Ellen E. Morrissey, George H. Wrenn.

When the committee was appointed it was believed that such a camp as is now at Ayer might be established in the immediate vicinity of Springfield and the committee felt deeply the responsibilities that would become its if such a camp were established here. Mr. Bradford went to New York, Montreal and Toronto seeking advice and gathering information to aid the committee in laying out its work and the committee was very actively diligent along this line until it was decided that such a camp would not be established here.

Much of the work of the committee has been advisory but no less important for that reason. H. B. Endicott under appointment of the governor established the soldiers' information bureau and requested this committee to attend to the setting up of machinery for the gathering of information about Springfield men in the military and naval services. The committee on social welfare of soldiers found the appropriate agency to do that work and it is being attended to. The committee has made a thorough study of all subjects which come within its province, and a tabulation of all agencies which are available to be called on for the various needs. It has shown commendable wisdom in denying itself the privilege of doing work itself when it found some other organization in the community which it thought could do it better and its patience and self-restraint have contributed greatly to increasing the efficient application of the energies of the various groups in Springfield that are giving their attention to these subjects.

COMMITTEE ON MEDICINE, HYGIENE AND SANITATION

The following were appointed to the committee: Dr. Everett A. Bates, Chairman, Harry S. Baldwin, Edward S. Bradford, Howard O. Buck,

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Leland G. Carlton, Dr. Walter H. Chapin, Dr. Charles J. Downey, Harry G. Fisk, Christopher I. Gagnier, Dr. John S. Hitchcock, Sigmund Levison, George Dwight Pratt, William J. Quilty, Clifford P. Thompson, William L. Young, Dr. Thomas F. Rearden and Dr. J. Wesley Shaw.

The committee on public safety for the commonwealth has a committee with this same name and requested your committee to cause the organization of a similar committee in Springfield to work along the lines suggested by this name in cooperation with the state committee and similar committees in other municipalities. The committee has formulated extensive and clearly worked-out plans for the meeting of the needs of the community along the lines of hygiene and sanitation which may arise if an emergency should occur.

COMMITTEE ON BUSINESS COOPERATION

The following were appointed members of the committee: Benjamin A. Franklin, Chairman, Fred R. Brown, Arthur A. Chilson, William O. Day, Harry G. Fisk, Samuel M. Green, Walter L. Mulligan, Charles T. Shean and Ralph W. Wight.

The committee conceived a plan that put into operation a very definite and very valuable work. The object was to decrease the harm to the country resulting from a shortage of freight cars by encouraging shippers to load more speedily, to increase full carload shipments and decrease part carload shipments, and to encourage consignees to unload more speedily. The three railroads serving Springfield were approached by the committee and cooperated enthusiastically with its work, providing among them the equivalent of one man's constant time in aid of the plan, without expense to the committee. The committee held a meeting of shippers and consignees at the rooms of the board of trade at which all were urged to cooperate. Notices and circulars were sent broadcast. The consent of shippers and consignees was obtained that railroads inform the committee of offenders and the committee has been diligent in so informing all offenders, among others the city of Springfield which left a carload of trap rock on a siding longer than the committee thought was absolutely necessary. The result of the work of the committee has been equivalent to adding many freight cars to the equipment of the railroads. Springfield was one of the first shipping points in the country to undertake such a work and the committee has received the thanks and the hearty commendation of the national war board.

Chairman Franklin has now entered the government service and Walter L. Mulligan has been made chairman of the committee.

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COMMITTEE ON BOYS' SERVICE

The committee is made up of the following members: Karl R. Hammond, chairman, Clarence M. Abbott, Yaël Becker, Hanford M. Burr, Charles H. Hall, Wilbur A. Stannard, Fred Stephenson, Robert P. Trask and Rev. William N. DeBerry.

The committee has enrolled in the boys' service league about 1,200 of the boys of the city, each one of whom is entitled to wear the button of the league. This league is organized, not for service for boys, but for service by boys. Each boy pledges himself to volunteer his services for emergencies under the boys' league and agrees to help in protecting gardens and generally assist our country and city as best he can, and this has had an important effect in creating a public sentiment in Springfield discountenancing depradations on gardens and fruit trees.

The bicycle squad is organized for messenger service. About seventy-five served at the time that the registration of men was being conducted by the home defense league and have done similar service on other occasions. About four hundred of them are now drilling regularly in nine school playgrounds in the city.

COMMITTEE ON WAR HISTORY

Charles H. Barrows has been appointed a committee on war history and is gathering full data in the nature of newspaper clippings and other material which will constitute a detailed record of Springfield's part in the war.

COMMITTEE ON TRUCKS AND MOTOR CARS

The committee is made up of the following men: Samuel F. Punderson, Chairman, J. Earl Litch, Albert Warren Nason, J. Walter Norcross, Henry F. Punderson and Robert Shirley.

The committee has registered ninety-three trucks and motor cars for emergency service with data as to the amount of work which the car is capable of performing and the amount of time that the owner is willing to give.

COMMITTEE ON FOUR-MINUTE MEN

The committee is made up of the following: Charles L. Young, Chairman, Simon J. Griffin, Edward Hutchings, William G. McKechnie, Rev. Joseph Sullivan and Charles J. Weston.

It was appointed at the request of the council of national defense and the service that the members of the committee agree to perform is to visit

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the theaters and moving picture houses and deliver speeches between acts which shall consume not more than four minutes of time on such subject and at such times as the council of national defense may request. It is expected that such speeches will be delivered on such subjects as Liberty Loans, Red Cross, etc.

SPRINGFIELD BRITISH MISSION COMMITTEE

The committee is made up of the following men: Clinton E. Bell, Chairman, Alexander Alexander, William H. Chalmers, Robert K. Clark, Robert J. Cleeland, Dr. George F. Dalton, Laurence L. Doggett, Rev. Eaton B. Freeman, Dr. Philip Kilroy, Edgar King, Dr. Harry Lukes, George A. MacDonald, C. O. Sylvester Mawson, Thomas K. McAllister, Rev. John McGann, Rev. Neil McPherson, Samuel McWhorter, Henry M. Morgan, Rev. John H. Nolan, Daniel E. Paris, Malcom Robertson, Charles Rogers, Alexander N. Smith, Frederick W. Weake, Rev. Robert Keating Smith, Rev. William W. Weeks and Andrew B. Wallace.

We were requested by authorities in Washington to appoint a committee to cooperate with British and Canadian authorities in recruiting for the British and Canadian forces. It gave substantial assistance to the military mission which visited Springfield October 9th.

THE SECRETARY'S OFFICE

This committee has maintained an office at the board of trade rooms since April 2d where Charles D. Reid, secretary of the committee, has been in constant attendance with such clerical assistance as he has needed. The work of this office has been of the greatest importance. Hardly a day has passed but that some communication has been received from the authorities at Washington or at Boston or from committees from other cities all of which have had the attention of the secretary, under the direction of this committee. Many of these matters have been referred to auxiliary committees but many of them have been referred to the secretary for attention and performance. His office has been in large measure a clearing house for the war emergency activities of the city.

COMMITTEE ON FINANCE

April 23d this committee recommended to the mayor the appointment of George Dwight Pratt to be chairman of the finance committee and requested him to nominate the other members of the committee. He

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recommended to this committee and this committee recommended to the mayor and the mayor appointed the following additional members: Joseph C. Allen, Lyman W. Besse, John W. B. Brand, Hon. James B. Carroll, Robert W. Day, J. Frank Drake, Frank L. Dunlap, Moses Ehrlich, William E. Gilbert, Charles H. Hall, Frederick Harris, Henry Lasker, William W. McClench, Charles C. McElwain, William G. McKechnie, Edward J. Murphy, Napoleon E. Russell, William C. Simons, Henry H. Skinner, Frank Stagnaro, Albert Steiger, Charles H. Tenney, Andrew B. Wallace and Newrie D. Winter.

The first matter of general policy considered and determined by this committee was that for the doing of all the work carried out by this committee and its auxiliary committees there would be one solicitation of funds conducted by one committee so that the other working committees should not be burdened by soliciting their own funds and the generous members of the public should not be annoyed by being solicited by each separate committee. It was therefore decided to have a finance committee whose duty it should be to solicit funds for the treasury of this committee, which funds should be appropriated by this committee for use by the several other committees as requests for appropriations might be made by them from time to time.

The committee had a very difficult task, principally for the reason that it was impossible for this committee to tell the finance committee how much money would be needed. Therefore it was difficult for its members to tell those from whom they were soliciting what amount of money it was desired to raise. After a thorough and careful consideration of the subject this committee concluded that the best method was to ask contributors to make their contributions in monthly installments, beginning the last day of June and ending the last day of December of this year, to the end that if by any chance it should develop that more money was subscribed than was needed the surplus would not be collected and that willing contributors might feel sure that they were not contributing more than would be used. The finance committee mailed appeals to several thousand people of Springfield with the result that $13,957.50 was pledged by 300 contributors.

About September 4th the mayor notified this committee of his conferences with General Edwards, General Cole and Col. Hayes and that it was proposed to arrange a parade of the 104th Regiment in the nature of a farewell review before the governor of the Commonwealth and all mayors and selectmen of the municipalities from which the men came, before their expected departure in the actual service of the country, and

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He asked this committee to arrange for the details of the carrying out of the plan, including transportation, rationing and financing. This committee immediately called upon the committee to cooperate with military authorities, William P. Hayes, Esq., chairman, to make arrangements for the luncheon at noon for officers and men and his committee with the assistance of various other organizations in the city, which was enthusiastically rendered, did their work excellently. The committee on trucks and motor cars secured the voluntary services of one hundred and five trucks and vehicles to transport troops from Camp Bartlett to the city. The secretary of our committee, Charles D. Reid, attended to the transportation by steam and street railway. The finance committee undertook the task of raising the money to pay the expenses of the parade, but as its chairman was out of town requested that John C. Robinson be added to the committee and made vice-chairman thereof, to guide the work of the committee during the absence of the chairman. The committee also gave Mr. Robinson a list of some twenty-five names and requested him to appoint so many of the men so named as he might think best to serve as an auxiliary committee to assist the finance committee in the soliciting of funds.

Mr. Robinson, with members of the finance committee and of the auxiliary committee, started this work and secured contributions aggregating $3,691.00. The expenses of the parade aggregated $3,435.82. Thus the parade was paid out of funds specially collected therefor, and not a dollar of the general pledges has been applied to that purpose.

During the week of September 24th the Springfield men at Ayer let it be known to the mayor and the members of this committee that they were in need of a company fund for the purpose of little necessaries and luxuries. On October 1st this committee appropriated $1,000 for the purpose and in order not to weaken the financial condition of the treasury of the committee the members of this committee advanced this $1,000 for the purpose.

THE COMMITTEE ON PUBLIC SAFETY AS A MUNICIPAL BOARD

August 7th, acting under the authority given by chapter 264 of the acts of the legislature of the current year, the city council passed an ordinance creating the committee on public safety of the city of Springfield and the mayor appointed and the city council confirmed us as members of that body. The ordinance gave us the authority to expend such sums as might be appropriated from time to time to conserve health and to pro-

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tect persons and property; to establish, maintain and equip training fields; to purchase military equipment and supplies; and for the purpose of conserving the food supply and to do such things as said committee may deem necessary to assist in the raising and distribution of food products.

April 27th, the city council appropriated the sum of $5,000 for the preservation of life and property and the maintenance of public order. Expenditures from this fund were made on recommendations of this committee before it became a municipal board, but on account of the narrowness of the scope of the purpose for which the money was appropriated, this committee felt warranted in using such funds only for the expenses of the home defense league and for other items of like character. After this committee became a municipal board under the provisions of the above named ordinance the city council appropriated $4,279.97, being the balance of the $5,000 which remained unexpended, to be disbursed by this committee. This committee authorized bills to be paid out of such funds for the food conservation projects namely, the farm, the canning demonstrations, garden supervision, etc.

STATEMENT OF THE FINANCIAL CONDITION OF THE COMMITTEE ON PUBLIC SAFETY

Dec. 1, 1917.

Assets		
Subscriptions to date,		$17,702.25
Cash paid in on same,	$13,184.25	
Paid by contra acct.,	28.75	
		13,213.00
Balance due on or before Jan. 1, 1918,		$4,489.25
Miscellaneous		95.83
Cash on hand,		1,295.72
Total Assets		$5,880.80
Liabilities		
Balance on advances made by Dexter, Beckwith, Page, Bowman and Ley,		$6,640.16
Account payable,		2.00
Total Liabilities,		$6,642.16
Total Assets,		5,880.80
Excess of Liabilities over Assets,		$761.36

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RECEIPTS AND EXPENDITURES

Cash received on subscriptions,.....		$13,184.25	
Advances made by individuals,.....		8,140.16	
Received from sales of canning jars and canned goods,.....		466.30	
Received from sale of corn at Ludlow,.....		50.00	
Total Cash received to date,..			$21,840.71
Expended from the funds of the Committee on Public Safety for			
COMMITTEE ON BOY'S SERVICE			
Food production,..:.....	$98.13		
Incidentals,.....	127.57		
		$225.70	
COMMITTEE ON BUSINESS COOPERATION			
Report on coal situation,.....	$5.00		
Circulars to shippers and consignees,.....	88.86		
		93.86	
COMPANY FUND AT AYER,.....		1,000.00	
COMMITTEE TO COOPERATE WITH MILITARY AUTHORITIES			
Signs and banners,.....	$194.18		
Lunches for Navy recruits,.....	53.05		
Auto supplies for officers of the Second Regiment,.....	1,692.99		
		1,940.22	
FINANCE COMMITTEE			
Letters inviting subscriptions,...		348.66	
COMMITTEE ON FOOD PRODUCTION AND CONSERVATION			
Ludlow farm,.....	$3,677.84		
Garden supervision,.....	1,339.42		
Canning instruction and materials,.....	2,724.49		
Diet squad,.....	196.98		
		7,938.73	
COMMITTEE ON HOME DEFENSE LEAGUE			
Advertising,.....	$79.25		
Recruiting headquarters,.....	35.00		
		114.25	
Amounts carried forward,....		$11,661.42	$21,840.71

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Amounts brought forward,...		$11,661.42	$21,840.71
NATIONAL LEAGUE FOR WOMAN'S SERVICE,.....		25.00	
PARADE OF THE 104TH REGIMENT			
Transportation,.....	$1,499.86		
Lunches,.....	1,842.74		
Decorating,.....	93.22		
		3,435.82	
OFFICE EXPENSE			
Secretary,.....	$1,390.00		
Clerical assistance,.....	536.75		
Stationery, postage, etc.,.....	468.03		
		2,394.78	
RECRUITING FOR THE REGULAR ARMY			
Music,.....	$749.00		
Advertising,.....	423.78		
Printing,.....	72.40		
Miscellaneous,.....	174.64		
		1,419.82	
SOCIAL WELFARE OF SOLDIERS			
Soldiers' Information Bureau,...		5.85	
Paid on advances made by individuals,.....		1,500.00	
Interest paid on endorsed note,.....		37.22	
Salary advanced to Mrs. Olney,.....		95.83	
Total Expenses,.....		$20,575.74	
Less			
Unpaid bill,.....	$2.00		
Bills settled by contra acct.,.....	28.75		
		30.75	
Total Expenditures,.....			20,544.99
Cash on hand,.....			$1,295.72

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EXPENDED FROM THE CITY APPROPRIATION

Amount of appropriation,.....		$5,000.00	
Expended prior to August 7th			
Clubs, badges and whistles for special police,.....	$467.68		
Clerical and office expense,.....	208.20		
Food production and conservation,.....	44.15		
		720.03	
Balance unexpended on August 7th,.....			$4,279.97
Expended since August 7th			
Food Production and Conservation			
Ludlow farm,.....	$1,799.66		
Garden supervision,.....	1,082.33		
Canning instruction,.....	1,083.48		
			3,965.47
Balance of City Appropriation unexpended,.....			$314.50
Accounts payable to be paid from this Appropriation,.....			113.98
Net amount of City Appropriation unexpended,.....			$200.52

We have herein correctly and we believe fully set forth what this committee has done since its appointment and how it has administered the funds that have been placed at its disposal. It may very well be that in the light of hindsight it will appear to some that some things might better have been done differently. It would be remarkable if it were otherwise. There have been differences of opinion as to methods but we have proceeded on a principle, which we believe is sound, especially in doing emergency work which is related to the national defense and safety, that it is more important to get things done than to get them done in the best possible way. It would have been the height of foolishness for us to allow work to stop because we could not agree on a method. It is better that it should have been done the second best way than that it should not have been done at all.

In the light of the teachings of our experience we have considered recommendations for the future. We believe that what the future has in store for us is as obscure as it was last April. We do not know what calls are to be made upon us. It seems very clear that considerable food production and conservation work should be done in Springfield this next season. We believe that the $1,000 sent to the men at Ayer is only a

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beginning of similar contributions that ought to go from Springfield to the men in uniform. The committee on the social welfare of soldiers should have funds placed at its disposal to carry out work now being planned which shall supply wholesome social diversion for the soldiers in this vicinity. It is entirely possible that this committee is not the best instrument to take care of these matters but from our consideration of the subject we do believe that the principle is sound that there should be a committee which shall conduct substantially all of the soliciting of funds from individuals for the general public purposes like unto those in which we have been engaged, to the end that the public may be relieved of the annoyance of constantly receiving requests to contribute to this, that, or the other thing. There will be in the future, as in the past, many objects that deserve small contributions, none of which really justify a soliciting campaign, but which all put together do justify such a general soliciting campaign as we recommend, and yet these small matters may be such as to bring shame and humiliation to the city, if they are not attended to. We believe that civic pride and a due regard for the good name and honor of the city make it necessary that there be an organization like ours and that the treasury be kept well supplied.

Our experience leads us to believe that the best way to raise these funds is to continue the system that was begun last June. John C. Robinson has been appointed chairman of a committee to solicit funds for the use of the committee on public safety and it is our purpose shortly to submit to the mayor for appointment to such committee a list of names of men who have previously consented to become members of such a committee to solicit from patriotic citizens pledges to be paid into the treasury of this committee during the year 1918, such sums as they shall determine, either in one payment or in twelve monthly payments, as they may prefer. We recommend the latter because it meets the observation that we are collecting a fund when we do not know how much of a fund we need for our purposes. Under the installment plan if by any chance the subscriptions should be larger than needed one or more monthly payments may be skipped and danger of a surplus avoided.

Respectfully submitted,

COMMITTEE ON PUBLIC SAFETY.

CHARLES H. BECKWITH,
H. H. BOWMAN,
FRED T. LEY,
EMBURY P. CLARK,
FRANK H. PAGE.

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JURY LIST.

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CITY OF SPRINGFIELD.

LIST OF JURORS, 1917.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Abar, John N.,	177 Northampton ave.,	Commercial Traveler, 266 Border st., East Boston.
Ackerman, John W.,	10 Maynard st.,	Machinist, 837 State st.
Adams, Charles,	30 Dover st.,	Nurseryman, 30 Dover st.
Adams, George T.,	940 Worthington st.,	Bookkeeper, 15 Market st.
Adams, Henry G.,	23 Healey ave.,	Machinist, Pine st., I. O.
Adams, Herbert W.,	58 Merida st.,	Carpenter, 264 Main st.
Adams, Walter,	44 Dover st.,	Nurseryman, 44 Dover st.
Adaskin, Herman,	44 Sumner ave.,	Merchant, 234 Main st.
Aggas, Reed R.,	28 Westford ave.,	Insurance Agent, 387 Main st.
Ahl, Michael L.,	395 Sumner ave.,	Contractor, City View ave., West Springfield.
Albin, Charles W.,	343 Bay st.,	Draper, 343 Bay st.
Albro, Robert C.,	96 Garfield st.,	Assistant Superintendent, 495 Main st
Alden, Arthur O.,	21 Clifton ave.,	Piano Salesman, 5 Stearns Square.
Alderman, Ernest L.,	66 Harrison ave.,	Stock Clerk, foot Church st., West Springfield.
Aldrich, Ralph E.,	127 Hastings st.,	Clerk, 256 Main st.
Aldrich, William O.,	40 Plainfield st.,	Night Clerk, 90 State st.
Allen, Arthur F.,	15 Gardner st.,	Salesman, 348 Main st.
Allen, Chester W.,	34 Belmont ave.,	Superintendent, 47–49 Water st. and 12 Worthington st.
Allen, Joseph H.,	11 Grenada ter.,	Tobacco Dealer, 11 Grenada ter.
Allen, George E.,	31 Willard ave.,	Salesman, W. J. Buckley & Bro. Co., 115 5th ave., New York, N. Y.
Allen, Sheldon F.,	76 Bay st.,	Bookkeeper, 31 Elm st.
Allis, Charles A.,	143 Carew st.,	Steamfitter, 33 Vernon st.
Allis, George,	782 Belmont ave.,	Printer, 292 Main st.
Alport, Lisle I.,	744 State st.,	Merchant, 54 Colton st.
Appleton, Allen L.,	334 Maple st.,	Private Secretary and Bookkeeper, 313 Maple st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Archer, Clarence H.,	11 Eagle st.,	Bookkeeper, Spalding Mfg. Co., Chicopee Falls.
Arens, Charles H.,	251 Oakland st.,	Cigar Maker, 53 Bliss st.
Armstrong, William J.,	27 Phoenix st.,	Expressman, 27 Phoenix st.
Arnold, Clarence H.,	53 Euclid ave.,	Jeweler, 418 Main st.
Arnold, Ernest S.,	52 Avon pl.,	Jeweler, 128 State st.
Arndt, Charles,	88 Bliss st.,	Furniture Finisher, 538 Main st.
Asher, Albert F.,	38 Grosvenor st.,	Manufacturer, 48–50 Main st.
Ashton, Tom,	75 Shamrock ave.,	Clerk, 336 Birnie ave.
Atchinson, Walter B.,	172 Oak st., I. O.,	Electrical Engineer, Pine st., I. O.
Atkinson, Chester P.,	26 Austin st.,	Drop Forger, Stockbridge st.
Atwood, Harry M.,	157 Kensington ave.,	Foreman, Willow st.
Austin, Daniel F.,	29 Glendell ter.,	Painting Contractor, 29 Glendell ter.
Austin, Michael P.,	20 Huntington st.,	Brick Mason, Unemployed.
Avery, Frank E.,	76 Mill st.,	Traveling Salesman, 228 Birnie ave.
Axtell, Charles S.,	27 Wellesley st.,	Printer, 17 Worthington st.
Bacon, Frank W.,	95 Walnut st.,	Profiler, Stockbridge st.
Baily, Hubert C.,	87 Buckingham st.,	Accountant, 356 Main st.
Baker, Louis H.,	130 Myrtle st., I. O.,	Clerk, Dexter P. Lillie Co., I. O.
Baker, Rhea K.,	47 Mulberry st.,	Manufacturer, 317 Main st.
Baker, Robert E.,	22 Forest st.,	Salesman, 22 Forest st.
Baker, William A.,	53 Bond st.,	Painter, 179-181 State st.
Balfe, William M.,	52 Loring st.,	No occupation.
Balkam, Ralph W.,	53 Whiting st.,	Veterinary Surgeon, 53 Whiting st.
Ball, Herbert A.,	51 Sargeant st.,	Bookkeeper, 837 State st.
Barber, John H.,	37 Sargeant st.,	Clerk, 251½ Main st.
Barker, Winfred W.,	421 Armory st.,	Printer, 381 Main st.
Barney, Frank M.,	687 Sumner ave.,	Monotype Operator, 292 Main st.
Barnett, Morris H.,	172 Thompson st.,	Cigar Manufacturer, 451 Main st
Barrett, Harry F.,	10 Chestnut st.,	Real Estate Dealer, 318 Main st.
Barrus, Clifton L.,	21 Jefferson ave.,	Milk Dealer, 21 Jefferson ave.
Barry, William C.,	88 Gresham st.,	Foreman, 293 Bridge st.
Bartlett, Benjamin P.,	14 Girard ave.,	Telephone Construction, 283 Worthington st.
Bartlett, Clarence J.,	337 Walnut st.,	Inspector, 17 Worthington st.
Bartlett, Harold C.,	371 Dickinson st.,	Rug Manufacturer, 371 Dickinson st.
Bartlett, John L.,	327 Bay st.,	Pharmacist, 749 Sumner ave.
Bartlett, LeRoy E.,	76 Bay st.,	Assistant Manager, Warwick ave.
Barton, William I.,	75 Avon pl.,	Insurance and Real Estate Dealer, 21 Besse pl.
Bashaw, Edward J.,	30 Hebron st.,	General Work, 207 Worthington st.
Bassett, Arthur F.,	223 Forest Park ave.,	Bookkeeper, Napier st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Bassett, Charles N.,	2 Atwood pl.,	Machinist, 837 State st.
Bates, Harry Parker,	95 Santa Barbara st.,	Foreman, Page Boulevard.
Bates, Pearl,	66 Crystal ave.,	Bookkeeper, 17 Taylor st.
Battige, Charles A.,	56 Grand st.,	Foreman, 36 Lyman st.
Baush, William H.,	64 Magnolia ter.,	Sales Manager, 662 North Main st.
Beaman, Charles A.,	264 Pearl st.,	Leather Salesman, 392 Main st.
Beamon, William A.,	48 Auburn st.,	Advertising Solicitor, 48 Auburn st.
Bearg, Benjamin,	46 Huntington st.,	Merchant, 155 Main st.
Beaudry, George L.,	16 Brookline ave.,	Organ Maker, 278 Chestnut st.
Beebe, Fred L.,	47 Sherman ave.,	Telephone Worker, 116 Liberty st.
Behan, Hubert F.,	89 Bridge st.,	Wire Weaver, Warwick ave.
Bell, Fred,	12 Margaret st.,	Carpenter, 12 Margaret st.
Bellamy, Thomas A.,	287 Fulton st.,	Boiler Maker, B. & A. Shops, West Springfield.
Benson, Raymond E.,	164 Alden st.,	Bookkeeper, 195 Alden st.
Bentley, S. Edwin,	46 Grant st.,	Optician, 481 Main st.
Bergdoll, Frederick,	304 Liberty st.,	Paper Cutter, Warwick ave.
Bernier, Wilfred J.,	38 Adams st.,	Decorator, 64 White st.
Berthiaume, Frank X.,	161 Eastern ave.,	Machinist, 86 Broadway, Chicopee Falls.
Bewsee Harvey P.,	15 Richelieu ct.,	Teamster, 36 Taylor st.
Bibeau, Louis N.,	35 Howard st.,	Shoe Dealer, 551 Main st.
Biggart, Fred L.,	415 Orange st.,	Machinist, Stockbridge st.
Biggerstaff, Adam,	775 Union st.,	Machinist, 53 Wilbraham rd.
Bill, Raymond R.,	53 Crystal ave.,	Contractor, 59 Fort st.
Birchard, Arthur R.,	44 Lafayette st.,	Publisher, 264 Main st.
Black, James,	307 Worcester st., I. O.	Machinist, Pine st., I. O.
Blackmer, Francis B.,	85 Lebanon st.,	Milkman, 134 Cass st.
Blaisdell, Louis M.,	131 Ranney st.,	Pressman, 381 Main st.
Bletzer, Louis A.,	1160 North st.,	Brewer, Springfield Brewery.
Bliss, John L.,	53 High st.,	Clerk, 195 State st.
Bliss, Nelson O.,	553 White st.,	Proprietor, 27 East Court st.
Bodurtha, Addison P.,	82 Prospect st.,	Foreman, Bridge st., West Springfield.
Boecklin, Thomas H.,	643½ Main st.,	Linotype Operator, Willow st.
Boedecker, Albert,	104 Monmouth st.,	Bookkeeper, 10 Broadway.
Bolden, Joseph T.,	89 Adams st.,	Funeral Director, 172 State st.
Bolewine, William H.,	237 Bay st.,	Superintendent, 210 Alden st.
Bond, James Herbert,	185 Hancock st.,	Tool Maker, Page Boulevard.
Bouvier, Adelard J.,	14 Beacon st.,	Lather, 527 Plainfield st.
Bowles, Caleb W.,	28 Dorchester st.,	Lunch Business, 282 Main st.
Bowles, Charles A.,	81 Mulberry st.,	Paper Supplies, 317 Main st.
Bowles, Sherman H.,	Crescent Hill,	Newspaper Editor, 381 Main st.
Bowman, G. Frank,	66 Pynchon st.,	Machine Hand, Stockbridge st.
Boyle, James H.,	140 Chestnut st.,	Real Estate Dealer, 318 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Boynton, Guy E.,	167 Long Hill st.,	Proprietor, 58 Harrison ave.
Bozenhard, Adolph,	408 Plainfield st.,	Tube Inspector, Oak st., Chicopee Falls.
Bradford, George Wallace,	133 Massachusetts ave.,	Salesman, 260 Main st.
Bradley, Edwin D.,	50 James st.,	Electrician, 332 Dwight st.
Bradley, Raymond,	142 Allen st.,	Driver, 472 Union st.
Brady, William H.,	85 Acushnet ave.,	Carpenter and Builder, 85 Acushnet ave.
Bragg, Benjamin L., Jr.,	128 Oak Grove ave.,	Teller, 407 Main st.
Brehm, George F.,	730 Main st.,	Button Turner, Howard st.
Breman, Christopher,	62 Montmorenci st.,	Foreman, Brightwood.
Brennan, Frederick W.,	15 Clinton st.,	Undertaker, 15 Clinton st.
Brennan, George F.,	38 Osgood st.,	Metal Worker, Brightwood.
Brennan, James J.,	48 Grover st.,	Mason Contractor, 48 Grover st.
Brennan, John,	5 Mattoon st.,	Bookkeeper, McAuslin & Wakelin Co., Holyoke.
Brennan, Michael J.,	80 Bradford st.,	Brewery Worker, 57 Hampden st.
Brennan, William F.,	50 Montmorenci st.,	Clerk, Springfield Provision Co., Brightwood.
Bresnahan, Patrick J.,	1136 North st.,	Stage Hand, 11 Elm st.
Brewer, Fred S.,	49 Wilmont st.,	Proprietor, 438 Dickinson st.
Brewster, Howard C.,	226 Fort Pleasant ave.,	Salesman, 94–96 Broadway.
Bridgman, Donald W.,	31 Maple st.,	Insurance Dealer, 293 Bridge st.
Bridgman, Harry S.,	15 Berkeley st.,	Office Manager, 420 Dwight st.
Briggs, Warren H.,	54 Benton st.,	Machinist, 837 State st.
Brigham, Fred C.,	141 Pineywoods av.,	Superintendent, 58 Harrison av.
Brown, Alexander M.,	356 Main st.,	Real Estate Dealer, 356 Main st.
Brown, Arthur N.,	24 Tyler st.,	Machinist, Page boulevard.
Brown, Frank A.,	211 Main st.,	Retired.
Brown, George F.,	79 Morris st.,	Merchant, 116 Dwight st.
Brown, George K.,	16 Worcester av.,	Foreman, Wason av.
Brown, Horatio G. W.,	43 Armory st.,	Electrician, 283 Worthington st.
Brown, Nedd W.,	33 Stratford ter.,	Piano Dealer, 170 Bridge st.
Brown, Phelps,	44 Avon pl.,	Manager, 132 Liberty st.
Brown, Wallace E.,	39 Grant st.,	Printer, 67 Taylor st.
Brown, Willis H.,	51 Kensington ave.,	Storekeeper, 9 Bliss st.
Bruce, Archie E.,	26 Allen st.,	Foreman, 151 Bridge st.
Bruce, Merton W.,	1240 North st.,	Elevator Man, 318 Main st.
Brunton, Martin J.,	790 Liberty st.,	Contractor, 173 Liberty st.
Bruton, James F.,	82 Pearl st.,	Foreman, 21 Cypress st.
Bryan, James A., Jr.,	56 High st.,	Broker, 293 Bridge st.
Bryant, Henry A.,	20 School st.,	President and Manager, 111 Lyman st.
Bryant, Henry D.,	34 Orange st.,	Monotype Operator, 367 Worthington st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Buchholz, Oscar H.,	40 Locust st.,	Costume Maker, 30 Lyman st.
Buckbee, Harry D.,	54 Byers st.,	Clerk, 32 Lyman st.
Buell, Orrin R.,	3 Salem st.,	Traveling Salesman, 131 State st., Boston.
Bugbee, Frank A.,	239 Hancock st.,	Piano Tuner, 239 Hancock st.
Bugbee, Herbert T.,	652 Worthington st.,	Watchman, 96 Summer st.
Bullard, Glenn M.,	38 Bristol st.,	Buyer, Worcester st., I. O.
Bullens, Clarence A., Jr.,	34 Noel st.,	Clerk, 37 Harrison ave.
Burch, William W.,	453 Union st.,	Manufacturer, 289 Main st.
Burdick, Pliny F.,	35 Harvard st.,	Photographer, 500 Main st.
Burgess, Chauncy J.,	263 Walnut st.,	Cigar Maker, 38 Hampden st.
Burgin, Alfred,	12 Ashmun st.,	Manufacturer, 96 Adams st.
Burke, John J.,	51 Vinton st.,	Bookkeeper, 5 Stearns Square.
Burke, Joseph H.,	40 Locust st.,	Foreman, 983 Main st.
Burke, Michael Henry,	91 Roseland st.,	Messenger, 5 North Main st.
Burke, Thomas A.,	121 Federal st.,	Bookkeeper, Oak st., Chicopee Falls.
Burnham, Erastus D.,	104 Buckingham st.,	Farmer, South Windsor, Conn.
Burns, Alanson E.,	61 Mason pl.,	Cigar Maker, 459 Worthington st.
Burns, Charles E.,	41 Knox st.,	Teamster, 36 Lyman st.
Burrell, John Franklin,	248 North Main st.,	Jitney Business, 248 North Main st.
Butler, Arthur,	27 Demond ave.,	Oil Maker, Plainfield st.
Butler, Tobias J.,	57 Osgood st.,	Chauffeur, 136 Mill st.
Byrnes, John F.,	63 Charles st.,	Floorwalker, 17 Worthington st.
Byron, Alexander,	30 Adams st.,	Wood Worker, Page boulevard.
Cabana, George E.,	314 Franklin st.,	Druggist, 298 Franklin st.
Calderwood, Edwin C.,	59 Fairfield st.,	Salesman, 245 Chestnut st.
Calkins, Iris L.,	24 Winthrop st.,	Carpenter, 264 Main st.
Calnen, Thomas John,	120 Calhoun st.,	Enamel Finisher, 837 State st.
Campbell, George B.,	131 Greenwood st.,	Foreman, Union Station.
Campbell, Louis A.,	189 Worcester st., I. O.,	Lathe Hand, Pine st., I. O.
Cannon, John P.,	49 Linden st.,	Claim Adjuster, 29 Worthington st.
Cape, Charles W.,	Cor. Wilbraham rd and Carlisle st.,	Die Sinker, Cor. Wilbraham rd. and Carlisle st.
Capen, Arthur D.,	84 Stebbins st.,	Carpenter, 837 State st.
Capron, Harry F.,	76 Benton st.,	Clerk, 500 Main st.
Carey, Charles H.,	30 Myrtle st.,	Automobile Salesman, 60 Dwight st.
Carhart, Paul W.,	19 Lenox st.,	Editor, 17 Broadway.
Carleton, George W.,	25 Margaret st.,	Shipping Clerk, Wilbraham rd.
Carlson, Carl E.,	447 Page boulevard,	Wood Worker, Page boulevard.
Carman, Julius F.,	266 Belmont ave.,	Grocer, 597 Main st.
Carney, John J.,	15 Cleveland st.,	Butcher, 445 Armory st.
Carrigan, Edward H.,	114 Massasoit st.,	Compositor, 381 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Carroll, Robert L.,	29 Holyoke st.,	Electrician, 319 Bridge st.
Carroll, William P.,	518 Wilbraham rd.,	Farmer, 578 Wilbraham rd.
Carter, Earle E.,	1025 State st.,	Clerk, 500 Main st.
Case, Robert A.,	94 Catharine st.,	Grocery merchant, 14–16 Catharine st.
Casey, John J.,	25 Clifton ave.,	Foreman, Street Department, City.
Casey, William T.,	3 Hillside pl.,	Pressman, 279 Dwight st.
Cassidy, John J.,	16 Cumberland st.,	Cigar Manufacturer, 224 Worthington st.
Castle, Clifford DeW.,	210 Maple st.,	Treasurer, 49 Lyman st.
Chaffee, Arthur L.,	64 Johnson st.,	Chauffeur, 251 Long Hill st.
Chamberlain, John,	254 Main st., I. O.,	Machinist, Pine st., I. O.
Chapin, Alfred H.,	37 George st.,	Treasurer, 336 Birnie ave.
Chapin, Fred D.,	135 Springfield st.,	Butter and Egg Dealer, 12 Brookline ave.
Chapin, George P.,	11 Continental st.,	Bookkeeper, Stockbridge st.
Chapin, Horatio T.,	166 Liberty st.,	Laborer, Water Dept., 71 Colton st.
Chapin, Louis W.,	15 Oak Grove ave.,	Music Teacher, 15 Oak Grove ave.
Chapin, Winfield E.,	336 Chestnut st.,	Mechanic, Brightwood.
Chapman, Albert G.,	1102 State st.,	Shipping Clerk, Napier st.
Chase, John C.,	251 Bridge st.,	Printer, 28 Fort st.
Chase, William C.,	62 Washburn st.,	Machinist, 837 State st.
Choiniere, Arthur,	29 Fremont st.,	Carpenter, 19 East Court st.
Church, Sumner D.,	180 Fort Pleasant ave.,	Inspector, Stockbridge st.
Clampit, George W.,	916 Main st.,	Blacksmith, 916 Main st.
Clampit, Thomas James,	36 Vermont st.,	Painter, 92 Firglade ave.
Clapp, George O.,	4 Chestnut st.,	Steam Fitter, 56 Florence st.
Clapp, Z. Charles,	56 Florence st.,	Steam Fitter, 56 Florence st.
Clark, Clarence O.,	33 Edwards st.,	Superintendent, 225 Liberty st.
Clark, Fred H.,	444 Sumner ave.,	Superintendent of Streets, Municipal Building.
Clark, Henry G.,	343 Walnut st.,	Pool Room Proprietor, 219 Main st.
Clark, Michael F.,	27 Waverly st.,	Tinner, East Hooker st.
Clark, Theodore H.,	39 Hawthorne st.,	Retired.
Cloud, Frank K., Jr.	10 Adams st.,	Clerk, 699 Main st.
Clough, Robert C.,	309 Birnie ave.,	Tire Maker, Oak st., Chicopee Falls.
Clune, John H.,	96 Byers st.,	Insurance Agent, 317 Main st.
Coats, Charles P.,	390 Walnut st.,	Painter and Paper Hanger, 390 Walnut st.
Coburn, Arthur R.,	126 Allen st.,	Carpenter, 499 Main st.
Cochrane, Hugh S.,	367 Belmont ave.,	Foreman, 310 Main st.
Coleman, George L.,	23 Dartmouth st.,	Retired.
Collins, Charles,	100 Abbe ave.,	Cardboard Finisher, 149 Wason ave.
Collins, Edward W.,	60 Vinton st.,	Wire Weaver, Heywood st.
Collins, Frank H.,	37 Dorchester st.,	Proprietor, 25 Sanford st.
Collins, J. Frank,	170 Florida st.,	Waste Dealer, 156 Lyman st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Collins, John J.,	29 Underwood st.,	Contractor, Court House pl.
Collins, Patrick J.,	23 Ledyard st.,	Compositor, 381 Main st.
Collins, Stephen J.,	34 Church st.,	Butcher, 10 Main st.
Collins, Thomas M., Jr.,	520 Armory st.,	Brick Layer, About the City.
Collins, William M.,	34 Church st.,	Salesman, 10 Besse pl.
Colt, Robert M.,	73 Pearl st.,	Painter, Oak st., Chicopee Falls.
Coltman, Joseph T.,	116 Westminster st.,	Salesman, 170 Bridge st.
Colvin, Charles H.,	74 Clantoy st.,	Barber, 716½ South Main st.
Colwell, Harris A.,	118 Massachusetts ave.,	Clerk, 407 Main st.
Colwell, Howard S.,	111 Berkshire st.,	Clerk, Hodges Fibre Carpet Co., I. O.
Combs, William A.,	123 Florence st.,	Towel Supply, 123 Florence st.
Condon, Thomas F.,	W. S. Healey ave.,	Shop Hand, Pine st., I. O.
Congdon, Henry M.,	45 Summit st.,	Laundry Man, 472 Union st.
Congdon, Oscar R.,	87 Bancroft st.,	Salesman, 390 Bridge st.
Congdon, William H.,	46 Grand st.,	Decorator, 46 Grand st.
Conlin, Bernard J.,	42 Bancroft st.,	Plumber, Myrick Building.
Connell, Charles P.,	56 Montrose st.,	Die Sinker, 336 Birnie ave.
Connell, Fred,	220 Pearl st.,	Linotype Operator, 381 Main st.
Connell, John F.,	225 Oakland st.,	Insurance Adjuster, 387 Main st.
Connelly, Henry D.,	76 Ashley st.,	Plumber, 59 Ashley st.
Connolly, Edward F.,	15 Adams st.,	Merchant, 92 Dwight st.
Connolly, Michael,	33 Longfellow ter.,	Motorman, 5 North Main st.
Connor, Arthur E.,	9 Hillside pl.,	Laborer, Unemployed.
Conroy, Patrick T.,	43 Franklin st.,	Laborer, Plainfield st.
Converse, Fred F.,	79 Vermont st.,	Carpenter, 150 Birnie ave.
Conway, Charles,	13 Edgewood st.,	Plumber, 31 Sanford st.
Coogan, Luke,	75 Orleans st.,	Painter and Paper Hanger, 318 Main st.
Cook, Frank E.,	153 Bowles st.,	Clerk, 495 Main st.
Cook, George S.,	33 Chapin ter.,	Merchant, 41 Cypress st.
Cook, George W.,	603 Sumner ave.,	Not employed.
Cook, Waldo L.,	18 Dorchester st.,	Editor, 381 Main st.
Cooke, Ralph Henry,	99 Massachusetts ave.,	Clerk, 500 Main st.
Cooney, Andrew J.,	26 Kensington ave.,	Conductor, 5 North Main st.
Corliss, Thomas M.,	109 Everett st.,	Grocery Clerk, 390-396 Main st.
Cornell, Julius Myron,	652 Chestnut st.,	Dentist, 120 Main st.
Cosgrove, James S.,	597 Chestnut st.,	Steam Fitter, 26 Willow st.
Costello, George F.,	113 Pine st.,	Mason Foreman, Union and Hancock sts.
Cote, Alphonse,	30 Worcester ave.,	Grocer, 536 Plainfield st.
Couch, Stephen E.,	72 Pearl st.,	Electrician, 521 Worthington st.
Covill, George E.,	63 Willard ave.,	Trolley Car Oiler, 5 North Main st.
Craig, Bertram J.,	268 Sumner ave.,	Salesman, 45 Lyman st.
Craig, Harold E.,	501 Allen st.,	Photo Engraver, 377 Dwight st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Craig, Harold J.,	15 Mapledell st.,	Chief Engineer, 86 Broadway, Chicopee Falls.
Crane, Roger W.,	33 Beaumont st.,	Manager, 118 Liberty st.
Crane, William F.,	80 Sargeant st.,	Steam Fitter, 19 Worthington st.
Crawford, Mark,	25 Orlando st.,	Polisher and Buffer, Stockbridge st.
Creighton, Alfred R.,	28 Florence st.,	Clerk, 303½ Main st.
Creswell, Albert,	N. S. Wilbraham rd.,	Farmer, Wilbraham rd.
Crofoot, Mervin L.,	57 Oak st., I. O.,	Plumber, 141 Main st., I. O.
Cronin, John J.,	25 North Main st.,	Wire Worker, Heywood st.
Cross, Charles W.,	203 White st.,	Polisher, Stockbridge st.
Cross, Frederick B.,	34 Pineywoods ave.,	Coat and Apron Maker, 902 Main st.
Crowninshield, George C.,	139 Colton st.,	Salesman, 139 Colton st.
Cullen, Thomas F.,	129 Ingersoll Grove,	Wire Weaver, Warwick ave.
Culver, Albert B.,	53 Vernon st.,	Cigar Maker, 71 Gardner st.
Cummings, Charles L.,	30 Bradford st.,	Foreman, Cor. Main and Bond sts.
Cummings, William S.,	35 Lenox st.,	Salesman, Riverside Station, Holyoke.
Cunliffe, Albert E.,	18 Middlesex st.,	Salesman, Center st., Chicopee.
Cunningham, Arthur L.,	14 Herman st.,	Salesman, Private Estate Coffee Co., New York, N. Y.
Cunningham, Harry R.,	41 Linden st.,	Clerk, 373 Main st.
Curtis, George W.,	105 Florence st.,	Contractor Mason, 105 Florence st.
Curtis, Howard F.,	38 Acushnet ave.,	Dyer, 15 Mill st.
Cushion, David H.,	47 Centre st.,	Machinist, 837 State st.
Cushman, Henry H.,	20 Vinton st.,	Foreman, Warwick ave.
Cushman, John H.,	26 Glendell ter.,	Manager, 302 Locust st.
Cutter, Harold H.,	14 Hiawatha st.,	Machinist Adjuster, 21 Cypress st.
Daigle, J. Alcide,	292 Main st., I. O.,	Printer, rear 292 Main st., I. O.
Dale, Russell P.,	1 Lincoln st.,	Superintendent, 472 Union st.
Daley, Joseph F.,	38 Melrose st.,	Chauffeur, 17 Worthington st.
Daley, Michael J.,	20 Rupert st.,	Electrical Engineer, 495 Main st.
Daley, John E.,	25 Essex st.,	Hackman, 25 Essex st.
Damon, Walter H.,	32 Bancroft st.,	Foreman, Foot of State st.
Daniels, Charles A.,	Prospect st.,	Baker, 144 Main st.
Daniels, Charles S.,	35 Central st.,	Barber, 140 Chestnut st.
Daniels, William H.,	319 State st.,	Optician, 21 Besse pl.
Darby, Norman A.,	53 Lyndale st.,	Foreman, Stockbridge st.
Darling, Fred A.,	21 Marble st.,	Proprietor, 57 Pecousic ave.
Darling, Robert,	179 Long Hill st.,	Wire Weaver, Heywood st.
Davis, Charles F.,	67 Armory st.,	Grocer, 69 Armory st.
Davis, Edward T.,	31 Maple st.,	Merchant, 398 Bridge st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Davis, Warren M.,	152 Jasper st.,	Machinist, Cor. Broad and Hanover sts.
Davis, Winthrop I.,	65 Firglade ave.,	Insurance Agent, 481 Main st.
Day, Edward H.,	140 Chestnut st.,	Department Manager, 21 Cypress st.
Day, Morgan G.,	56 High st.,	Manufacturer, I. O.
Degnan, Charles W.,	12 Hastings st.,	Foreman, N. Y., N. H. & H. R R. Co.
De Land, George A.,	214 High st.,	Real Estate Dealer, 214 High st.
Dell, William,	878 Carew st.,	Fruit Salesman, John Fowler, Westfield.
Denning, William E.,	23 Salem st.,	Blacksmith, 211 Dwight st.
Dennis, Elmer J.,	220 Main st.,	Carpenter.
Deuel, Frederick C.,	41 Garfield st.,	Retired.
De Wolf, Philip B.,	119 Bay st.,	Machinist, B. & M. R. R. Shop.
Dexter, Ernest J.,	68 Forest Park ave.,	Insurance Agent, 476 Main st.
Dexter, Roy S.,	24 Burlington st.,	Shipping Clerk, 56 Tyler st.
Dexter, William H.,	19 Ingersoll Grove,	Real Estate Dealer, 25 Elm st.
Dickinson, Harry P.,	55 Sylvan st.,	Proprietor, 115 Walnut st.
Dickinson, Isaac L.,	643½ Main st.,	Body Maker, 2 Park st.
Dickinson, Oliver H.,	110 Atwater ter.,	Not employed.
Dietrich, Albert H.,	15 Kimberly ave.,	Linotype Operator, 381 Main st.
Digan, Bernard A. C.,	387 Oakland st.,	Repairman, 283 Worthington st.
Dignan, Thomas,	50 Brookline ave.,	Steam Fitter, 32 East Court st.
Dillingham, Raymond L.,	40 High st.,	Cost Clerk, 86 Broadway, Chicopee Falls.
Dillon, James F.,	704½ Main st.,	Liquor Merchant, 704 Main st.
Dineen, Patrick,	116 Tenth st.,	Brick Layer, 17 Worthington st.
Dion, Charles J.,	854 Main st.,	Telephone Repair Man, N. E. Tel. Co., Holyoke.
Divily, Lawrence E.,	45 Armory st.,	Printer, 292 Main st.
Dobbs, Fred,	74 Massachusetts ave.,	Store Keeper, 92 Eastern ave.
Dobson, Thomas A.,	178 Maple st.,	Manager, 137½ State st
Doersam, Franz Otto,	40 Murray Hill ave.,	Cigar Maker, 32 Hampden st.
Donahue, Frank P.,	50 Edwards st.,	Plumber, 42 Harrison ave.
Donahue, William J.,	63 Gardner st.,	Steam Fitter, Oak st., Chicopee Falls.
Donald, George D.,	41 Main st.,	Manager, 12 Stearns Park.
Donnellan, John,	144 King st.,	Steam Fitter, 241 Main st.
Donnelly, Edward H.,	30 Clinton st.,	Assembler, Page boulevard.
Donoghue, James A.,	42 Morgan st.,	Custodian, 217 Franklin st.
Donohue, John W.,	32 Plainfield st.,	Architect, 40 Walker Building.
Donovan, Charles J.,	54 Armory st.,	Bookkeeper, 77 Dwight st.
Donovan, John T.,	56 Greenwood st.,	Clerk, 204 Main st.
Donovan, Martin J.,	19 Colonial ave.,	Saloon Keeper, 179 Main st.
Donovan, Michael,	7 Goodrich st.,	Inspector, 112 Summer st.
Donovan, Thomas,	51 Cass st.,	Foreman, 245 Chestnut st.
Dorey, John E.,	135 Spring st.,	Buyer, 345 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Douglas, Edward C.,	824 Sumner ave.,	Clerk, 500 Main st.
Douglass, Sidney M.,	98 Florence st.,	Clerk, 63 Elm st.
Dowd, Jeremiah F.,	282 Quincy st.,	Mason, 210 Pine st.
Dowd, John P.,	206 Main st.,	Not employed.
Dowd, Michael W.,	211 King st.,	Hack Driver, 211 King st.
Dowd, William F.,	18 Genesee st.,	Tire Maker, Oak st., Chicopee Falls.
Dowd, William P.,	103 Eastern ave.,	Glazier, 850 State st.
Downey, Daniel J.,	67 Bond st.,	Painter, Boston & Maine Railroad.
Downey, Henry M.,	49 Horace st.,	Machinist, Stockbridge st.
Downs, Thomas F.,	163 Bowdoin st.,	Pressman, 29 Worthington st.
Doyle, John F.,	54 Webster st.,	Shipping Clerk, 67 Lyman st.
Doyle, John Raymond,	117 Patton st.,	Machinist, 126 Lyman st.
Doyle, William P.,	117 Patton st.,	Salesman, 357 Main st.
Drake, Frank,	130 Everett st.,	Plumber, 13 Market st.
Drake, J. Frank,	91 Mulberry st.,	Treasurer, 17 Worthington st.
Drake, Perley H.,	40 Adams st.,	Salesman, 538 Main st.
Driscoll, Francis J.,	28 Everett st.,	Real Estate Agent, 476 Main st.
Driscoll, John A.,	53 Leete st.,	Upholsterer, Tilley & Co., Holyoke.
Dubour, Frederick,	22 Morris st.,	Salesman, 38 Harrison ave.
Dudley, Philip E.,	103 Mill st.,	Manager and Treasurer, 288 Chestnut st.
Duke, Charles O.,	4 Eagle st.,	Helper, Plainfield st.
Dunham, Frederick H.,	336 Central st.,	Machinist, 292 Main st.
Dunham, George B.,	7 Ashley st.,	Painter and Paper Hanger, 164 Bridge st.
Dunlap, Loyal H.,	39 Cedar st.,	Plumber, 39 Cedar st.
Dunn, James E.,	24 Congress st.,	Clerk, 147 Main st.
Dunne, John J.,	98 Kimberly ave.,	Manager and Treasurer, 3 Post Office Square.
Duquette, William S.,	97 Holly st.,	Weaver, Hodges Fibre Carpet Co., I. O.
Durgin, Freeman J.,	99 Revere st.,	Driver, 472 Union st.
Durning, Charles F.,	336 Central st.,	Telegrapher, 423 Main st.
Dusault, Alexander J.,	90 Montrose st.,	Wood Carver, 90 Montrose st.
Dwight, Theodore F.,	186 Buckingham st.,	Real Estate Dealer, 25 Harrison ave.
Eagan, Thomas, Jr.,	39 Locust st.,	Cutter, 21 Cypress st.
Earl, W. Allen,	228 Belmont ave.,	Foreman, 17 Worthington st.
Eaton, Raymond H.,	29 Newman st.,	Shipping Clerk, 141 Lyman st.
Eaton, Theodor,	998 Main st.,	Foreman, 998 Main st.
Edgar, John E.,	46 Main st.,	News Dealer, 16 Main st.
Edwards, George E.,	44 Oak st.,	Provision Merchant, 29 Walnut st.
Egan, John M.,	25 Cumberland st.,	Printer, Birnie ave.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Eichler, Henry,	15 Myrtle st.,	Photographer, 391 Main st.
Emerson, Edwin,	99 Jefferson ave.,	Foreman, Agawam Paper Co., Mittineague.
Emerson, Roy N.,	6 Sumner ave.,	Salesman, Oak st., Chicopee Falls.
Engelhard, Frederick H.,	172 Princeton st.,	Manufacturer, 200 Franklin st.
Erard, Emile J.,	522 North Main st.,	Grocer, 512 North Main st.
Erard, Hector L.,	402 North Main st.,	Tinsmith, Hampden st.
Erickson, Louis G.,	872 Liberty st.,	Manufacturer, 872 Liberty st.
Estey, George Frederick,	43 Dorchester st.,	Treasurer, 233 Worthington st.
Evans, William,	144 Essex st.,	Foreman, Summer st.
Evans, Willis A.,	169 Hampshire st., I. O.,	Foreman, Pine st., I. O.
Ewig, Valentin,	84 Benton st.,	Sausage Maker, 84 Benton st.
Ewing, Thomas,	56 Holyoke st.,	Lineman, 283 Worthington st.
Fairbank, Charles R.,	251 Allen st.,	Machinist, Page boulevard.
Farrar, Allan D.,	35 Montrose st.,	Manager, 35 Montrose st.
Farrar, Herman W.,	83 Harvard st.,	Civil Engineer, 495 Main st.
Farrell, Thomas R.,	163 Bridge st.,	Collector, 233 Main st.
Faulkner, W. Everett,	37 Dunmoreland st.,	Clerk, 88 Birnie ave.
Fennyery, Botond J.,	300 Belmont ave.,	Salesman, 300 Belmont ave.
Fenton, Ira E.,	25 Kimberly ave.,	Real Estate Dealer, 293 Bridge st.
Ferguson, George W.,	30 Maplewood ter.,	Wholesale Grocer, 16 Lyman st.
Ferry, Harry L.,	36 Hawley st.,	Plumber, 19 Wilbraham rd.
Field, Edwin A.,	45 Rochelle st.,	Telegraph Editor, 381 Main st.
Finnerty, John F.,	558 Chestnut st.,	Embalmer, 307 State st.
Finton, Thomas J.,	123 Essex st.,	Machine Dealer, 45 Sharon st.
Firth, John, Jr.,	786 State st.,	Druggist, 827 State st.
Fitch, Allen C.,	18 Pomona st.,	Assistant Traffic Engineer, 283 Worthington st.
Fitzgerald, Edward,	S. S. Chicopee Falls rd.,	Electrician, Bircham Bend.
Fitzgerald, James M.,	50 Winthrop st.,	Bookbinder, 58 Harrison ave.
Fitzgibbon, Bernard G.,	33 Ashley st.,	Reporter, 292 Main st.
Flebotte, Joseph Thomas,	305 Main st., I. O.	Merchant, 155½ Main st., I. O.
Fleming, David J.,	599 Plainfield st.,	Drop Forger, 837 State st.
Fleming, William H.,	101 Everett st.,	Laborer, 134 Cass st.
Flynn, William E.,	205 William st.,	Stone Cutter, Not employed.
Foerster, Louis,	279 Walnut st.,	Manufacturer, 137½ State st.
Fogg, George H.,	47 Beech st.,	Teamster, 133 Bridge st.
Foisy, Ambrose R.,	33 Myrtle st.,	Barber, 180 State st.
Foley, John J.,	1082 S. James ave.,	Night Watchman, Page boulevard.
Foley, Michael T.,	43 Brookline ave.,	Paper Manufacturer, Birnie ave.
Forbes, Wilfrid J.,	518 Liberty st.,	Cashier, 27 Lyman st.
Ford, Willis A.,	208 Belmont ave.,	Treasurer and Manager, 33 Lyman st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Ford, Willis H.,	42 Forest st.,	Superintendent, 236 Main st.
Forgue, Dolphus,	87 Oak st., I. O.,	Machinist, Pine st., I. O.
Foskett, Harrison W.,	21 Maple st.,	Parcel Delivery, 21 Maple st.
Foss, Arthur L.,	153 Bowles st.,	Bookkeeper, Whiting Paper Co., North Wilbraham.
Fowler, Frederick N.,	211 Main st.,	Automobile Dealer, 286 Worthington st.
Foy, John W.,	10 Armory st. court,	Iron Worker, 106 Taylor st.
Francoeur, George,	30 Franklin st.,	Carpenter, 531 Worthington st.
Franklin, Benjamin A.,	36 Bellevue ave.,	Paper Maker, Mittineague.
Franklin, Robert M.,	83 Abbe ave.,	Meat Inspector, Brightwood.
Fredette, Frank C.,	156 Bowdoin st.,	Printer, 28 Fort st.
French, Albert C.,	33 Porter ave.,	Carpenter, Page boulevard.
French, Charles M.,	773 State st.,	Salesman, 318 Main st.
French, W. Earl,	132 Washington road,	Salesman, Armory st.
French, William H.,	19 Churchill st.,	District Engineer, 283 Worthington st.
Frost, Charles E.,	32 Emery st.,	Not employed.
Fuller, Percy A.,	W. S. Sixteen Acres road,	Farmer, Sixteen Acres road.
Fulton, John B.,	68 Bradford st.,	Foreman, 88 Birnie ave.
Gage, Charles A.,	26 Spencer st.,	Painter, 450 Allen st.
Gagnier, George J.,	13 Norfolk st.,	Builder, 13 Norfolk st.
Gagnier, Samuel J.,	32 Eagle st.,	Contractor, 44 Eagle st.
Galvin, Thomas C.,	Cooley st.,	Milk Peddler, about the City.
Gammons, William L.,	1604 North st.,	Clerk, 500 Main st.
Gardner, George H.,	37 Winthrop st.,	Upholsterer, 392 Main st.
Gardner, Richard,	21 Marble st.,	Clerk, American Express Co., Union Station.
Garvey, John F.,	42 Linden st.,	Barber, 784 State st.
Garvey, John J.,	27 Congress st.,	Floorwalker, 392 Main st.
Garvey, Thomas M.,	21 Medford st.,	Conductor, 5 North Main st.
Gath, Howard E.,	64 Avon pl.,	Bookkeeper, 460 Main st.
Gault, J. Frank,	67 Bradford st.,	Machinist, Foot Cypress st.
Gavin, Hugh J.,	108 Byers st.,	Salesman, 152 Lyman st.
Geary, J. Augustus,	72 Carew st.,	Salesman, 26 Lyman st.
Gendreau, Wilfrid C.,	58 Johnson st.,	Painter, 837 State st.
Genest, Lester S.,	55 Parker st.,	Merchant, Ludlow.
Gengenbach, Edward,	33 Walnut st.,	Clerk, 25 Harrison ave.
Gentile, Alfonso,	73 Margaret st.,	Grocer, 343 Water st.
Geran, Michael J.,	37 Avon pl.,	Proprietor, 235 Main st.
Giard, Arthur J.,	29 Winthrop st.,	Salesman, 538 Main st.
Gibbs, Frank L.,	146 Myrtle st.,	Clerk, 193 Worcester st., I. O.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Giblin, James B.,	181 Pendleton ave.,	Assembler, 37 Tyler st.
Gidley, William S., Jr.	34 Dorchester st.,	Photographer, 139 Bowles st.
Giggey, Charles E.,	66 Marble st.,	Photo Engraver, 353 Dwight st.
Gilbert, Samuel A.,	102 Whittier ave.,	Operator, Oak st., Chicopee Falls.
Gilfoil, George T.,	693 Main st.,	Stenographer, Not employed.
Gladfelter, Harry,	25 Bancroft st.,	Cigar Maker, 16 Main st.
Gleason, John F.,	140 Patton st.,	Electrician, Boston & Albany Railroad Shops, West Springfield.
Gleason, William P.,	26 Grant st.,	Coal Weigher, 222 Summer st.
Glenn, Robert C.,	66 Byers st.,	Bookbinder, 28 Fort st.
Goldsmith, Fred H.,	32 Thompson st.,	Painter, 140 State st.
Goodell, Edward E.,	144 Buckingham st.,	Clerk, Municipal Building.
Goodell, Newton H.,	46 Main st.,	Clerk, 74 Main st.
Gordon, Jacob A.,	19 Franklin st.,	Real Estate and Insurance, 19 Franklin st.
Gould, J. Raymond,	16 Berkeley pl.,	Clerk, 837 State st.
Gour, Charles M.,	152 Quincy st.,	Machinist, 60 Broad st.
Gowrie, Spencer C.,	90 King st.,	Civil Engineer, 318 Main st.
Goyette, Charles N.,	63 Whittier ave.,	Carpenter, 495 Main st.
Granfield, Andrew,	22 Salem st.,	Carpenter, 131 Bowdoin st.
Graves, Harry L.,	24 Florida st.,	Printer, 381 Main st.
Greaney, Peter,	54 Everett st.,	Hackman, 54 Everett st.
Green, Daniel B.,	47 Grosvenor st.,	Driver, 132–134 Cass st.
Gregory, John S.,	270 Pearl st.,	Printer, 29 Worthington st.
Griffin, Jeremiah,	216 Armory st.,	Steamfitter, 35 State st.
Griffin, Lawrence P.,	119 Massasoit st.,	Merchant, Plainfield st.
Griffin, Maurice, Jr.,	925 Berkshire ave.,	I. O. Tally Clerk, B. & A. R. R. Co.
Griffin, Richard J.,	177 Union st.,	Telegraph Operator, 383 Main st.
Grinovetz, Morris,	77 Morgan st.,	Dancing Teacher, 274 Worthington st.
Griswold, Robert,	53 High st.,	Electrotyper, 17 Worthington st.
Gruendler, Adolph G.,	16 Massachusetts ave.,	Foreman, 837 State st.
Grunnander, Carl,	19 Belgrade pl.,	Tailor, 26 Vernon st.
Gruttermeyer, William F.,	170 Massasoit st.,	Grocer, 283 North Main st.
Gumble, Wolcott W.,	104 Cornell st.,	Real Estate Dealer, 374 Main st.
Guy, Frank D.,	38 Wellington st.,	Metal Worker, 38 Wellington st.
Guyette, Bert E.,	47 Shillingford st.,	Teamster, 195 Allen st.
Gwinnell, Edward C.,	223 Hancock st.,	Inspector, Page Boulevard.
Hagerty, Daniel,	27 Sheldon st.,	Brick Layer, Foot of State st.
Haggerty, Florence L.,	72 Pearl st.,	Superintendent, New Bedford.
Haggerty, William J.,	12 Brookline ave.,	Insurance Collector, 29 Worthington st.
Hall, David A.,	112 Cambridge st.,	Carpenter, 310 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Hall, Edward H.,	339 Union st.,	Treasurer, 9 Main st., Holyoke.
Hall, G. Leslie,	103 Commonwealth ave.,	Organ Builder, 278 Chestnut st.
Halliday, Thomas W.,	57 Bancroft st.,	Calender Maker, Brightwood.
Halligan, John J.,	791 Main st.,	Shipping Clerk, Spalding Co., Chicopee.
Halloran, Matthew J.,	47 Congress st.,	Manager, 271 Main st.
Halloran, Patrick,	42 Alfred st.,	Tailor, 42 Alfred st.,
Halstead, Leroy W.,	168 North Main st.,	Proprietor, 275 North Main st.
Hamilton, Alexander,	30 Allen st.,	Motorman, 5 North Main st.
Hamilton, Howard R.,	28 Morris st.,	Cigar Maker, 479 Main st.
Hammond, Millard F.,	53 Princeton st.,	Real Estate Broker, 53 Princeton st.
Hanafin, Thomas E.,	4 Pasadena st.,	Baker, 546 Main st.
Hancock, Arthur H.,	577 Page boulevard,	Restaurant Keeper, 577 Page boulevard.
Hanks, Harry M.,	226 Pearl st.,	Manager, 392 Main st.
Hanley, James J.,	21 Genesee st.,	Mailing Clerk, 17 Worthington st.
Hanley, Thomas J.,	133 Franklin st.,	Barber, 133 Franklin st.
Hannon, John,	36 Bradford st.,	Real Estate Agent, 36 Bradford st.
Hanscomb, George S.,	70 Ventura st.,	Theatrical Manager, 310 Main st.
Hanson, Fred O.,	169 Florida st.,	Paper Dealer, Holyoke.
Hanson, Walter S. S.,	387 Oakland st.,	Proof Reader, 292 Main st.
Hapgood, Ben A.,	47 Fairfield st.,	Salesman, 46 Harrison ave.
Harder, Gordon F.,	140 Wilbraham rd.,	Coal Dealer, 39 Colton st.
Hardie, Harry C.,	9 Harvard st.,	Buyer, 357 Main st.
Hare, Albert P.,	38 Main st.,	Property Owner, 38 Main st.
Hargreaves, John,	13 Gardner st.,	Messenger, 19 Hampden st.
Harlow, Archibald S.,	253 Massasoit st.,	Inspector, North Main st.
Harnden, Samuel H., Jr.,	353 Hancock st.,	Clerk, 125 Carew st.
Harper, Jerymie J.,	342 Main st.,	Not employed.
Harrigan, Robert F.,	181 Bowdoin st.,	Salesman, 49 Lyman st.
Harring, Harry R.,	111 Hampden st.,	Machinist, Stockbridge st.
Harrington, James W.,	15 Margaret st.,	Mail Clerk, 17 Worthington st.
Harrington, William J.,	35 Ledyard st.,	Butter Maker, 134 Cass st.
Harris, Frederick H.,	27 Carlisle st.,	Conductor, 5 North Main st.
Harris, M. Victor,	47 Tenth st.,	Printer, 292 Main st.
Hart, Harry S.,	418 Eastern ave.,	Electrician, Electric Light Plant, Alden st.
Hart, John J.,	4 Gerrish court,	Bookkeeper, 46 Spring st.
Hartenstein, Louis C.,	224 Main st.,	Hotel Keeper, 224 Main st.
Hartwell, Frank O.,	99 Chapin ter.,	Superintendent, Birnie ave.
Hartwell, Frank W.,	31 Sterling st.,	Draftsman, Wason ave.
Hartwell, Hiram M.,	63 Centre st.,	Barrel Rifler, 86 Broadway, Chicopee Falls.
Hartwell, Oscar D.,	1264 North st.,	Advertiser, 1264 North st.
Harvey, Adelbert W.,	97 Massachusetts ave.,	Merchant, 36 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Harvey, Burton S.,	15 Cedar st.,	Policy Writer, 500 Main st.
Hausman, Emil,	438 Belmont ave.,	Confectioner, 37 Harrison ave.
Hawkins, Philip D.,	303 Main st.,	Not employed.
Hawks, Thomas C.,	20 Lafayette st.,	Photographer, 20 Lafayette st.
Hayden, Lawrence F.,	238 Mill st.,	Barber, 25 East Court st.
Hayes, James J.,	358 Franklin st.,	Manager, 73 State st.
Hayman, Maurice,	264 Franklin st.,	Insurance Agent, 500 Main st.
Hayward, Thomas H.,	523 White st.,	Mechanic, Stockbridge st.
Healey, Cornelius,	336 Chestnut st.,	Bartender, 333 Worthington st.
Healey, James,	51 Acushnet ave.,	Inspector, 123 Carew st.
Hearne, William E.,	32 Temple st.,	Manager, 188 Worthington st.
Heenehan, Michael J.,	27 Washburn st.,	Draftsman, 86 Broadway, Chicopee Falls.
Heffner, Stephen J.,	49 Acushnet ave.,	Garment Maker, 56 Harrison ave.
Hennessey, James J.,	256 King st.,	Mason Builder, 256 King st.
Hennessey, John B.,	53 Bradford st.,	Newspaperman, 292 Main st.
Hennessey, Martin J.,	65 Prospect st.,	Business Agent, 387 Main st.
Herbert, William H.,	237 Bay st.,	Pharmacist, 807 Main st.
Herchovitz, Louis,	136 Franklin st.,	Storekeeper, 445 State st.
Herrick, Joshua L.,	52 Eton st.,	Manager, 130 Lyman st.
Hertzmark, David E.,	64 Grosvenor st.,	Printer, 377 Dwight st.
Hewitt, Charles D.,	291 Hickory st.,	Student, 291 Hickory st.
Hickey, Jeremiah E.,	246 King st.,	Traveling Salesman, 332 Main st.
Hicks, Herbert W.,	20 Myrtle ter.,	Auditor, 374 Main st.
Higginbotham, Charles W.,	223 Hancock st.,	Foreman, 93–95 Orleans st.
Higgins, Cornelius Joseph,	16 Columbia ter.,	Wire Weaver, Heywood st.
Hillier, George,	454 Union st.,	Brick Layer, 499 Main st.
Hillier, George W.,	25 Willard ave.,	Clerk, 837 State st.
Hills, Frank M.,	153 Dickinson st.,	Carpenter, 850 State st.
Hitchen, Joseph F.,	114 Rowland ave.,	Bookkeeper, 32 Liberty st.
Hodge, William E.,	27 Biltmore st.,	Deputy Superintendent, Administration Building.
Hodges, Carl R.,	65 Worcester st., I. O.,	Manufacturer, Hodges Fibre Carpet Co., I. O.
Hogan, Daniel J.,	542 Chestnut st.,	Plumber, 542 Chestnut st.
Hogan, George H.,	255 Walnut st.,	Carpenter, Page boulevard.
Hogan, James J.,	670 Carew st.,	Carpenter, about the City.
Hogan, Myles C.,	38 Arch st.,	Not employed.
Hogan, Thomas F.,	38 Chapel st.,	Barber, 784 State st.
Holcomb, Walter E.,	220 White st.,	Clerk, Unemployed.
Holland, Ralph M.,	837 Main st.,	Linotype Operator, 17 Westfield st., West Springfield.
Hollander, Lewis,	348 Walnut st.,	Foreman, 154 Wilbraham ave.
Hollister, Arthur Dwight, Jr.,	238 Pine st.,	Draftsman, Foot Church st., West Springfield.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Holloway, Fred E.,	76 Melrose st.,	Teamster, Springfield Rendering Co., Brightwood.
Holman, Charles W.,	71½ Adams st.,	Piano Polisher, 71½ Adams st.
Holt, Horace S.,	362 Wilbraham road,	Field Engineer, Cor. Worthington and Main sts.
Hortie, Richard W.,	86 Belle ave.,	Musician, 256 Main st.
Horton, Wilson J.,	810 Main st.,	Slater and Tiler, 810 Main st.
Hosley, Charles W.,	266 Pearl st.,	Salesman, 293 Bridge st.
Hosley, Frank M.,	59 Demond ave.,	Machinist, Wason ave.
Hosley, Nelson R.,	12 Brookline ave.,	Clerk, 192 State st.
Houlihan, Michael,	51 Auburn st.,	Machinist, B. & M. R. R. Co.
Hovey, Fred W.,	52 High st.,	Real Estate Agent, 52 High st.
Howard, Lancelot N.,	274 Pine st.,	Assembler, Page boulevard.
Howe, George M.,	770 Sumner ave.,	Clerk, 500 Main st.
Howes, Harry W.,	66 Auburn st.,	Compositor, 338 Worthington st.
Howland, John G.,	20 Kenwood ter.,	Secretary, 240 Main st.
Hoyle, Herbert R.,	55 North Main st.,	Shoe Clerk, 310 Main st.
Hubbard, George A.,	48 Keith st.,	Real Estate Dealer, 48 Keith st.
Hubbard, Harold P.,	9 Temple st.,	Insurance Clerk, 383 Main st.
Hughes, John J.,	76 Vernon st.,	Fruit Peddler, 76 Vernon st.
Huie, Herbert E.,	20 Massachusetts ave.,	Insurance Agent, 500 Main st.
Hulen, Bertram D.,	100 Mill st.,	Reporter, 381 Main st.
Hunt, Charles F.,	260 Pearl st.,	Junk Dealer, 25 Harrison ave.
Hunt, Raymond T.,	624 Belmont ave.,	Nurseryman, Longmeadow.
Hunt, Russell P.,	36 Grenada ter.,	Clerk, North Main st.
Hunter, Charles J.,	82 Bridge st.,	Harness Maker, 63 Market st.
Huntting, Henry R.,	22 Temple st.,	Bookseller and Publisher, 21 Besse pl.
Hutchinson, Randolph H.,	67 Girard ave.,	Inspector, 354 Birnie ave.
Hutton, Joseph,	251 Bridge st.,	Accountant, Cold Spring ave., West Springfield.
Hyde, Henry C.,	86 Mill st.,	Paymaster and Treasurer, 93 Broad st.
Hynes, Andrew T.,	55 Cass st.,	Linotype Operator, 381 Main st.
Hynes, Edward V.,	57 Cass st.,	Conductor, 5 North Main st.
Ingersoll, Robert N.,	69 Bowdoin st.,	Secretary, 43 Cross st.
Ireland, Charles,	476 Main st.,	Janitor, 476 Main st.
Ivers, Francis C.,	15 Maynard st.,	Drug Clerk, 802 State st.
Ives, Harvey M.,	99 Mulberry st.,	Insurance Agent, 374 Main st.
Jacobs, Edward S.,	31 Maple st.,	Ticket Printer, 33 Lyman st.
Jarrett, George F.,	85 Sherman st.,	Commercial Traveler, 85 Sherman st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Jefferson, Charles J.,	21 Narragansett st.,	Consulting Engineer, 86 Broadway, Chicopee Falls.
Jenkins, Herbert A.,	391 Belmont ave.,	Butcher, South Deerfield.
Jewett, Ralph W.,	47 Bradford st.,	Bookkeeper, 41 Hampden st.
Jocelyn, Charles,	59 Oak Grove ave.,	Clerk, 37 Harrison ave.
Johnson, Charles B.,	29 (B) Main st.,	Stock Clerk, 850 North st.
Johnson, Charles H.,	45 Bryant st.,	Inspector, 86 Broadway, Chicopee Falls.
Johnson, Henry I.,	48 Euclid ave.,	Foreman, 17 Worthington st.
Johnson, James E., Jr.,	27 Milton st.,	Teamster, 5–11 Market st.
Johnson, Peter C.,	59 Sorrento st.,	Foreman, 837 State st.
Jones, Frederic M.,	84 Spring st.,	Bookkeeper, 56 Harrison ave.
Jones, H. Melville,	62 Avon pl.,	Piano Salesman, 392 Main st.
Joslin, Lorin Lee,	147 Wilbraham road,	Manager, 376 Birnie ave.
Kalman, Bernhard,	30 Summit st.,	Cigar Packer, 457 Worthington st.
Kane, John,	22 Crestwood st.,	Not employed.
Kane, Richard E.,	198 Northampton ave.,	Chef, 420 Dwight st.
Kaplinger, Charles H.,	832 Chestnut st.,	Printer, 28 Fort st.
Keenan, Bartholomew J., Jr.,	90 Adams st.,	Welder, 32 Liberty st.
Kehoe, John,	57 Greenwich st.,	Janitor, Cor. Plainfield st. and Rowland ave.
Keller, George,	45 Holyoke st.,	Cigar Maker, 222 Main st.
Kelley, James T.,	79 Ashley st.,	Brick Mason, 79 Ashley st.
Kelliher, John T.,	51 Cleveland st.,	Polisher, 86 Broadway, Chicopee Falls.
Kellogg, Charles H.,	14 Vernon st.,	Employment Office, 14 Vernon st.
Kellogg, Harry M.,	609 Sumner ave.,	Traveling Salesman, 37 Harrison ave.
Kellogg, Oliver W.,	48 Wilbraham ave.,	Packer, 837 State st.
Kelly, Maurice John,	270 King st.,	Mason Contractor, 270 King.
Kelly, William J.,	86 Amherst st.,	Manager, 274 Main st.
Kelton, Chester M.,	36 Westernview st.,	Tailor, 180 Worthington st.
Kemp, Frederick A.,	402 Sumner ave.,	Lumber Dealer, Warehouse st.
Kennedy, Morris B.,	18 Kibbe ave.,	Mechanic, 837 State st.
Kennedy, Newton L.,	28 Morris st.,	Wood Finisher, 225 Liberty st.
Kennedy, Timothy,	75 Linden st.,	Molder, 48 Hampden st.
Kennefick, Richard,	65 Essex st.,	Mechanic, 983 Main st.
Kennely, William J.,	59 Ashley st.,	Plumber, 59 Ashley st.
Kenny, Thomas,	103 Grover st.,	Foreman, 35 State st.
Kentfield, Harry W.,	12 Grove st.,	Bookkeeper, 108 Main st.
Kerr, William,	83 Greene st.,	Painter, 53 Wilbraham road.
Kibbe, Clifton W.,	128 Oakland st.,	Real Estate Dealer, 128 Oakland st.
Kieley, Michael D.,	241 Walnut st.,	Baker, 254 Bridge st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Kilburn, Kenneth B.,	55 Middlesex st.,	Auto Salesman, 17 Suffolk st., Holyoke.
Kilgour, James,	22 Acushnet ave.,	Plumber, 428 Dickinson st.
King, Frederick L.,	267 Walnut st.,	Shipping Clerk, Wason ave.
King, Harry B.,	16 Grove st.,	Foreman, 499 Main st.
King, Walter H.,	140 Yale st.,	Shipping Clerk, 37 Harrison ave.
Kingsbury, George O.,	34 Dickinson st.,	Foreman, 278 Chestnut st.
Kingston, John J.,	78 Charles st.,	Clerk, 357 Main st.
Kinsman, Ernest A.,	101 Whittier ave.,	Brick Layer, about the City.
Kipp, Walter C.,	134 Carew st.,	Section Foreman, B. & A, R. R. Co.
Kirkpatrick, James L.,	786 State st.,	Second-hand Box Dealer, 786 State st.
Kites, Harry L.,	19 Kimberly ave.,	Salesman, Atlantic ave.
Kittel, Ernest J.,	5 Brown st.,	Watch Maker, 19 Besse pl.
Kling, Mathew,	46 Bancroft st.,	Not employed.
Knapp, Edwin C.,	14 Daviston st.,	Builder, 14 Daviston st.
Knowles, William,	20 School st.,	Blacksmith, Retired.
Knowles, William L.,	509 Wilbraham road,	Steam Engineer, Mittineague.
Knowlton, Fred M.,	62 Shefford st.,	Architect, At Home.
Knox, Archibald H.,	149 Cambridge st.,	Tool Maker, Page boulevard.
Krafft, Peter,	31 Hawthorne st.,	Brewery Worker, Springfield Brewery Co.
Krafft, William O.,	70 Main st.,	Machinist, 156 Wason ave.
Krull, John L.,	55 Walnut st.,	Wire Weaver, Heywood st.
Kuenzel, Christopher W.,	12 Goodrich st.,	Jeweler, 119 State st.
Kuhn, Ernest H.,	55 Harriet st.,	Printer, Wason ave.
La Brecque, Alfred R.,	53 Worcester ave.,	Shipping Clerk, 312 Birnie ave.
Ladd, Frederick S.,	856 Main st.,	Jeweler, 426 Main st.
La Francis, Cyril,	330 Main st.,	Insurance Agent, 29 Worthington st.
Lamb, Augustus C.,	52 Cornell st.,	Salesman, 9 Main st., Holyoke.
Lamont, Emery N.,	346 Chestnut st.,	Tool Maker, Page boulevard.
Lanckton, Arthur L.,	41 Pasco st.,	Traveling Salesman, Haskell Adams Co.
Lane, Edward G.,	52 Pearl st.,	Automobile Salesman, 150 Chestnut st.
Lane, Elmer G.,	34 Chapin ter.,	Receiving Clerk, 354 Birnie ave.
Lane, Harry H.,	348 White st.,	Salesman, 348 White st.
Lange, Arthur E.,	1 Lincoln st.,	Bookkeeper, 382 Bridge st.
Lantz, Fred De Wolfe,	49 Kenwood Park,	Local Manager, 30 Harrison ave.
Larcher, William R.,	127 Greenwood st.,	Tool Maker, 21 Cypress st.
Larkin, John W.,	37 Douglas st.,	Inspector, Page boulevard.
Larose, Ernest,	218 Center st., I. O.,	Watchman, Front st., I. O.
Lasker, Morris,	18 Congress st.,	Traveling Salesman, 18 Congress st.
Laurence, Jason E.,	216 Center st., I. O.,	Fireman, Fiberloid Co., I. O.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
La Valley, Bernard O.,	140 Union st.,	Barber, 527 Main st.
La Valley, Frederick J.,	209 Walnut st.,	Printer, 17 Worthington st.
Lawrence, George W.,	72 Mapledell st.,	Bookkeeper, 141 Lyman st.
Lawson, Robert E.,	12 Pynchon st.,	Traveling Salesman, 45 Broadway, New York, N. Y.
Leahy, Thomas,	83 Cedar st.,	Laborer, For the City.
Leary, John T.,	67 Ashley st.,	Button Maker, Howard st.
Leavitt, Wallace W.,	87 Cedar st.,	Plumber, 39 Cedar st.
Lee, Frank E.,	35 Trillium st.,	Foreman, 57 Willow st.
Leech, Howard C.,	16 Amherst st.,	Cream Business, 16 Amherst st.
Leitch, Joseph E.,	115 Florence st.,	Assistant Agent, N. Y., N. H. & H R. R.
Lemay, Joseph H.,	79 Pynchon st.,	Barber, 276 Worthington st.
Leonard, Edwin F.,	348 Carew st.,	Druggist, 72 Main st.
Leshure, Willard P.,	24 Derby Dingle,	President, 118 Fisk ave., Brightwood.
Lester, De Witt C.,	20 Gordon st.,	Machinist, Page boulevard.
Lester, Eugene F.,	39 Wilbraham ave.,	Machinist, 86 Broadway, Chicopee Falls.
Lester, John J.,	843 Chestnut st.,	Real Estate Dealer, 843 Chestnut st.
Levell, John,	93 Pendleton ave.,	Baker, 156 Hancock st.
Lewis, Albert T.,	11 Elizabeth st.,	Painter, 776 State st.
Lewis, Edward C.,	37 Sherman st.,	Clerk, 305 Main st.
Lewis, Robert E.,	69 Massachusetts ave.,	Manager, 24–26 Lyman st.
Linehan, James P.,	24 Albemarle st.,	Foreman, 279 Dwight st.
Linehan, Timothy,	128 Patton st.,	Clerk, 837 State st.
Linscott, Robert H.,	41 Greene st.,	Grocery Clerk, 457 State st.
Litchard, Martin K.,	15 Temple st.,	Manager, 31 Harrison ave.
Lloyd, Henry W.,	28 Buckingham st.,	Treasurer, 19 Worthington st.
Lockwood, Arthur L.,	46 Ranney st.,	Stereotyper, 381 Main st.
Lombard, Ralph E.,	76 Magnolia ter.,	Real Estate Dealer, 31 Elm st.
Londergan, Thomas F.,	53 Hollywood st.,	Painter, 53 Hollywood st.
Long, Louis,	161 Main st.,	Laundryman, 21–25 Clinton st.
Loomis, Lyman S.,	540 Sumner ave.,	Manager, 293 Bridge st.
Losee, George F.,	116 Berkshire st., I. O.,	Photo Engraver, 3 Post Office Square.
Lovejoy, Frank O.,	81 Berkshire st., I. O.,	Assistant Manager, Worcester st., I. O.
Lovelace, Charles E.,	133 Colton st.,	Assembler, 837 State st.
Lovett, George P.,	490 Chestnut st.,	Salesman, 83 Warwick ave.
Ludden, Richard E.,	20 Harriet st.,	Plumber, Chicopee.
Ludwig, William J.,	11 Columbia ter.,	Painter, 837 State st.
Luell, William F.,	86 Cedar st.,	Printer, 17 Worthington st.
Lyman, Ernest M.,	30 Ruskin st.,	Photo Engraver, 3 Post Office Square.
Lyman, Frank J.,	168 Boston road,	Iceman, 168 Boston road.
Lyman, John R.,	101 Dartmouth st.,	Manufacturer, 119 Liberty st.
Lyman, Theo. E.,	31 Daytona st.,	Clerk, B. & M. R. R. Co.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Lynch, Frank J.,	20 Greene st. ave.,	Mason, 48 Grover st.
Lyons, James,	562 Armory st.,	Driver, 54 Fort st.
Lyons, Patrick A.,	134 Armory st.,	Barber, 35 Taylor st.
MacCallum, D. Stanley,	175 Hampshire st., I. O.,	Mechanical Draftsman, Pine st., I. O.
MacFarlane, William,	202 Northampton ave.,	Machinist, 86 Broadway, Chicopee Falls.
Mackay, David P.,	24 Benton ave.,	Manager, Willow st.
Madden, Michael J.,	276 Armory st.,	Lithographer, Warwick ave.
Maguire, William E.,	639 Chestnut st.,	Dentist, 340 Bridge st.
Mahaney, Michael W.,	201 Eastern ave.,	Merchant, 182 Eastern ave.
Mahoney, Daniel,	356 Franklin st.,	Sanitary Inspector, Administration Building.
Mahoney, James E.,	61 Albemarle st.,	Contractor, 61 Albemarle st.
Mallory, Louis E.,	35 High st.,	Real Estate Dealer, 318 Main st.
Maloney, James T.,	16 Vinton st.,	Teamster, Cor. Fort and Water sts.
Manley, Gilbert E.,	185 Belmont ave.,	Bookkeeper, 152 Lyman st.
Manning, James,	61 Linden st.,	Proprietor, 61 Linden st.
Manning, John H.,	167 Johnson st.,	Machinist, Page boulevard.
Manning, John J.,	61 Clantoy st.,	Foreman, Foot Howard st.
Manning, John W.,	109 Federal st.,	Traveling Salesman, about Connecticut.
Mansfield, George E., Jr.,	15 Temple st.,	Manager, 353 Main st., Hartford, Conn.
Mansfield, Robert M.,	75 Bay st.,	Jeweler, 200 Worthington st.
Marden, Edward W.,	47 Grant st.,	Artotype Printer, Warwick ave.
Marsh, Walter B.,	40 Cliftwood st.,	Bookkeeper, 307 Main st.
Marshall, Marvin A.,	8 Terrence st.,	Manager, 41 Hampden st.
Martelle, Alick A.,	104 Spring st.,	Cabinet Maker, 48 Hampden st.
Martin, Thomas J.,	20 Crane st.,	Chauffeur, rear 131 North Main st.
Marvin, Norman E.,	41 Grosvenor st.,	Plumber, 10 Morgan st.
Mason, Herbert W.,	116 Florence st.,	Milk Dealer, 116 Florence st.
Matthews, Clifton E.,	189 Northampton ave.,	Lithographer, 140 Wilbraham ave.
Maurer, Henry,	497 Dickinson st.,	Painter, 497 Dickinson st.
Mayer, Carl August,	47 Merwin st.,	Superintendent, North Main st.
Mayforth, Frederick K.,	205 Hancock st.,	Electrician, 17 Worthington st.
Mayhew, Willard H.,	68 Court st.,	Florist, 426 Main st.
Mayon, Carroll B.,	77 Elm st.,	Bookkeeper, 13 Market st.
McAnanama, John J.,	27 Genesee st.,	Printer, 381 Main st.
McBride, Daniel,	506 Liberty st.,	Hack Driver, 506 Liberty st.
McCabe, John F.,	31 Maple st.,	Purchasing Agent, 500 Main st.
McCaffrey, James M.,	98 Prospect st.,	Proprietor, 6 Main st.
McCarthy, Charles,	67 Linden st.,	Switch Tender, Springfield St. Railway, Chicopee.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
McCarthy, Daniel F.,	1109 North st.,	Motorman, 5 North Main st.
McCarthy, Dennis,	151 Colton st.,	Laborer, 16 Liberty st.
McCarthy, John V.,	25 Guild ave.,	Clerk, 17 Worthington st.
McCarthy, Timothy,	18 Crane st.,	Foreman, 195 Armory st.
McClean, Frederick C.,	177 Chestnut st.,	Heating Contractor, 31 Sanford st.
McCleary, William L.,	196 King st.,	Roofer, 47 Colton st.
McClintock, James V.,	91 Monroe st.,	Manager, 91 Monroe st.
McCormack, James J.,	229 Central st.,	Electrician, 5 North Main st.
McCormick, John F.,	405 Chestnut st.,	Roofer, 405 Chestnut st.
McCormick, John J.,	49 Worcester ave.,	Pressman, 53 Hillman st.
McCulloch, Henry B.,	38 Clifton ave.,	Clerk, Page boulevard.
McDonald, Michael J.,	28 Roseland st.,	Motorman, 5 North Main st.
McGinty, Edward J.,	92 Spring st.,	Druggist, 188 Eastern ave.
McGrath, James F.,	14 Massasoit pl.,	Assembler, North Main st.
McGrath, John E.,	176 Abbe ave.,	Signal Service, B. & A. R. R. Co.
McKinney, Robert F.,	28 Alden st.,	Rifler, Page boulevard.
McKeon, Thomas,	59 Genesee st.,	Bartender, 685 North st.
McKinnon, James,	57 High st.,	Photograph Engraver, 377 Dwight st.
McLaughlin, Bernard,	18 Brookline ave.,	Grocery Clerk, 61 Main st.
McMahon, John J.,	93 Pine st.,	Printer, 17 Worthington st.
McMaster, Charles M.,	208 Hancock st.,	Laundryman, 472 Union st.
McMorrow, Patrick B.,	17 Raymond ave.,	Conductor, 5 North Main st.
McNeil, George E.,	39 Granville st.,	Carpenter, 495 Main st.
McNulty, Michael H.,	328 North Main st.,	Salesman, Hartford, Conn.
McNulty, William J.,	426 Chestnut st.,	Manufacturer, 317 Main st.
McPhee, Rodolph P.,	9 Frost st.,	Associate Editor, 296 Main st.
McQuaid, Samuel L.,	179 Clarendon st.,	Purchasing Agent, Jackson and Summer sts., Holyoke.
McSweeney, Edward M.,	84 Adams st.,	Wine Clerk, 704 Main st.
Mead, Edward E.,	44 Clifton ave.,	Carpenter, 495 Main st.
Meagher, James H.,	2 Lincoln st.,	Machinery Dealer, 19 Sharon st.
Meehan, Frank T.,	42 Ringgold st.,	Foreman, 29 Summer st.
Meehan, Patrick,	674 Main st.,	Printer, 381 Main st.
Meehan, William H.,	129½ Essex st.,	Cigar Manufacturer, 127½ Essex st.
Mehlman, Harry D.,	52 Huntington st.,	Proprietor, 263 North Main st.
Mendon, Granville A.,	190 Bowdoin st.,	Bookkeeper, 321 Main st.
Mendon, Howard G.,	190 Bowdoin st.,	Photo Engraver, 3 Post Office Square.
Merrick, Carl W.,	35 Lenox st.,	Auditor, 1–29 Belmont ave.
Merrick, Herbert S.,	450 Chicopee road,	Clerk, 719 Liberty st.
Merrick, Robert O.,	88 Catharine st.,	Clerk, 24 Lyman st.
Merritt, Alfred,	135 Main st., I. O.,	Weaver, Hodges Fibre Carpet Co, I. O.
Messner, Alfred L.,	48 Willard ave.,	Lithographer, 140 Wilbraham ave.
Metcalf, F. Arthur,	465 Sumner ave.,	Manager, 29 Worthington st.
Metzdorf, August E.,	41 Stratford ter.,	Supervisor, Park Department.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Miellez, Fred,	85 Main st.,	Laborer, 86 Broadway, Chicopee Falls.
Miller, D. Edward,	52 Thompson st.,	Merchant, Warwick ave.
Miller, Frederic M.,	26 Commonwealth ave.,	Electrician, 500 Main st.
Miller, Max,	264 Eastern ave.,	House Painter, 264 Eastern ave.
Mills, Theodore P.,	260 Main st., I. O.,	Shop Hand, Worcester st., I. O.
Minney, David,	E. S. Indian Leap st., I. O.,	Salesman, 38 Harrison ave.
Mitchell, Patrick J.,	145 Bond st.,	Grain Dealer, 232 Chestnut st.
Monroe, Charles D.,	212 Bay st.,	Insurance Agent, 25 Harrison ave.
Moody, Joseph C.,	141 Magnolia ter.,	Printer, 292 Main st.
Moore, Burton H.,	11 Marble st.,	Printer, 17 Worthington st.
Moreau, Charles L.,	22 Franklin st.,	Foreman, B. & A. R. R. Co.
Morgan, John H.,	72 Tenth st.,	Blacksmith, 163 Lyman st.
Moriarty, Daniel,	54 Murray Hill ave.,	Yard Clerk, Cor. Summer and Spring sts.
Moriarty, James Joseph,	124 Everett st.,	Foreman, 18 Liberty st.
Morley, Frank A.,	481 Belmont ave.,	Paper Hanger, Unemployed.
Morris, Frederick G.,	50 Kensington ave.,	Milk Peddler, 120 Oakland st.
Morrissey, Martin J.,	38 Chapel st.,	Mason, 19 Ladd st.
Morse, Charles F.,	8 Oak Grove ave.,	Tool Maker, Page boulevard.
Morse, John M.,	30 Besse pl.,	Clerk, 374 Main st.
Mossey, William G.,	4 Pinney pl.,	Wire Worker, Warwick ave.
Mossman, William M.,	26 Besse pl.,	Bookkeeper, 500 Main st.
Moulton, Frank S.,	77 Johnson st.,	Purchasing Agent, 622 Main st.
Moxom, Ralph P.,	173 Wilbraham ave.,	Shipping Clerk, Berkshire ave.
Moynihan, Eugene J.,	136 Myrtle st., I. O.,	Engineer, Wright Wire Mill, Palmer.
Moynihan, Jerry F.,	141 Bond st.,	Electrician, 332 Dwight st.
Muir, William G.,	92 Johnson st.,	Foreman, 21 Cypress st.
Mulligan, George J.,	42 Terrence st.,	Plumber, 445 State st.
Mumford, Hammond B.,	122 Chestnut st.,	Clerk, 500 Main st.
Munger, Walter J.,	100 Central st.,	Merchant, 708–710 Main st.
Munsell, Samuel W.,	67 Fairfield st.,	Manager, 121 State st.
Murphy, Dennis G.,	22 Plymouth st.,	Cigar Dealer, 16 Main st.
Murphy, John F.,	28 Ringgold st.,	Foreman, Cor. Church and Union sts., West Springfield.
Murphy, John H.,	70 Grosvenor st.,	Plumber, 86 Broadway, Chicopee Falls.
Murphy, John H.,	81 Eastern ave.,	Clerk, 152 State st.
Murphy, John Joseph,	518 Armory st.,	Bottler, Cor. Liberty and Charles sts.
Murray, Arthur M.,	52 Sycamore st.,	Foreman, 63 Wilbraham rd.
Murray, J. Frank,	61 Crystal ave.,	Foreman, 73 State st.
Murray, Thomas Joseph,	109 Eastern ave.,	Chauffeur, 4 Madison ave.
Murray, William J.,	72 Bay st.,	Grocer, 261 Chestnut st.
Myers, William C.,	41 Beacon st.,	Paper Hanger and Painter, 41 Beacon st.
Myrick, Herbert,	151 Bowdoin st.,	Publisher, 29 Worthington st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Nally, Thomas F.,	663 State st.,	Jeweler, 333 Main st.
Nash, Charles A.,	120 Oakland st.,	Milk Dealer, 120 Oakland st.
Nash, Frederick W.,	21 Sylvan st.,	Proprietor, 371 Main st.
Neff, Arthur D.,	25 Albemarle st.,	Manager, 357 Main st.
Neumann, Hugo Curt,	68 Pearl st.,	Artist, 77 Worthington st.
Nevers, George B.,	577 Dickinson st.,	Engineer, 37 Harrison ave.
Nevins, William H.,	150 Pearl st.,	Proprietor, 279 Dwight st.
Newell, Raymond D.,	33 Beech st.,	Clerk, 172 State st.
Newell, William C.,	57 Bowdoin st.,	Retired.
Newhouse, Howard C.,	20 Hughes ave.,	Merchant, 426 Dwight st.
Newman, Robert C.,	222 King st.,	Edge Gilder, 29 Sheffield st.
Newton, Chester P.,	627 Chestnut st.,	Mechanical Engineer, 318 Main st.
Neylon, Daniel A.,	162 Northampton ave.,	Clerk, 67 Lyman st.
Neylon, John, Jr.,	112 Eastern ave.,	Plumber, 32 Dwight st.
Nichols, John A.,	21 Wilcox st.,	Retired.
Nichols, La Roy,	95 Jefferson ave.,	Carpenter, about the City.
Nickerson, Robert K.,	100 Grenada ter.,	Railroad Agent, B. & M. R. R.
Nihill, Joseph,	43 John st.,	Not employed.
Niles, Orville W.,	43 Calhoun st.,	Not employed.
Noble, Thomas D.,	53 Horace st.,	Salesman, Amsterdam, N. Y.
Noble, William B.,	84 Dartmouth st.,	Druggist, 167 Chestnut st.
Nolan, Daniel J.,	40 Franklin st.,	Blacksmith, 5 North Main st.
Nolan, Patrick, Jr.,	204 Center st.,	Laborer, Hodges Fibre Carpet Co., I. O.
Nooney, Sanford P.,	409 Central st.,	Clerk, Whitcomb & Faulkner, Palmer.
Norcross, J. Walter,	85 Kimberly ave.,	Automobile Dealer, 151 Bridge st.
Norton, Edward G.,	160 Hampshire st., I. O.,	Foreman, Worcester st., I. O.
Norton, James D.,	21 Pearl st.,	Flour Broker, Chamber of Commerce, Boston.
Norton, William H.,	414 North Main st.,	Bookkeeper, 390-396 Main st.
Nugent, Frank,	20 Greene st. ave.,	Mason Tender, 575 Main st.
Oatley, Emerson W.,	63 Federal st.,	Farmer, Longmeadow.
Oatley, Frederick L.,	33 Kenwood ter.,	Shipping Clerk, Willow st.
Ober, Amos T.,	33 Douglas st.,	Foreman, 68 Birnie ave.
O'Brien, John J.,	490 Chestnut st.,	Driver, 123 Carew st.
O'Brien, John J.,	26 Washburn st.,	Packer, 439 Main st.
O'Brien, John P.,	1152 State st.,	Machinist, 837 State st.
O'Brien, Joseph A.,	560 Liberty st.,	Clothier, 730 Liberty st.
O'Brien, Patrick J.,	68 Holyoke st.,	Compositor, 381 Main st.
Ochsner, George,	17 Broad st.,	Baker, 804 Main st.
O'Connell, Charles F.,	122 Patton st.,	Shoe Clerk, 349-359 Main st.
O'Connell, Edward J.,	101 Everett st.,	Clerk, 19 Hampden st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
O'Connell, Patrick J.,	136 Congress st.,	Inspector, 88 Birnie ave.
O'Connor, Edward E.,	63 Lowell st.,	Machinist, Page boulevard.
O'Connor, James Michael,	136 Greenwood st.,	Iron Worker, 138 Taylor st.
O'Connor, William J.,	198 Massasoit st.,	Machinist, North Main st.
O'Donnell, Bartholomew J.,	250 Franklin st.,	Clerk, Springfield Gas Light Co., Water st.
Ogden, Frank B.,	N. S. Boston road,	Farmer, R. F. D. No. 1, Box 189, Boston rd.
Ogden, Walter Richard,	73 Holly st.,	Sheeter, Worcester st., I. O.
O'Hare, George F.,	12 Kibbe ave.,	Plumber, 624 Worthington st.
O'Hare, Patrick J.,	733 Carew st.,	Cloth Cutter, Warwick ave.
Oldroyd, John,	66 Albemarle st.,	Engineer, 27 Worthington st.
O'Malley, Patrick J.,	18 Grove st.,	Filer, 86 Broadway, Chicopee Falls.
O'Malley, Ralph H.,	62 Florence st.,	Deputy Sealer of Weights and Measures, Administration Building.
O'Malley, Walter A.,	105 Boston road,	Tailor, 399 Dickinson st.
Onorato, Joseph,	235 Central st.,	Grocer, 72 Bridge st.
O'Reilly, Timothy W.,	176 St. James ave.,	Chief Inspector, 5 North Main st.
Osgood, Henry W.,	8 Oak Grove ave.,	Shipping Clerk, 373 Main st.
Osgood, Herbert L.,	19 Bedford road,	Claim Agent, 500 Main st.
Ostiguy, Jean Peter,	98 Hall st.,	Foreman, 21 Harrison ave.
Ostiguy, Theodore L.,	293 Wilbraham road,	Clerk, 373 Main st.
Otto, John,	38 Jefferson ave.,	Painter and Decorator, 211 North Main st.
Owens, Edmund M.,	30 Armory st.,	Mason Contractor, 30 Armory st.
Owens, William H.,	26 Belgrade pl.,	Wine Clerk, 560 Main st.
Packard, Waverly D.,	48 Crystal ave.,	Chief Engineer, foot of State st.
Page, Arthur S.,	45 East Alvord st.,	Electrical Engineer, 283 Worthington st.
Page, Charles B.,	53 Pasco st.,	Retired.
Page, Walter J.,	16 Berkeley pl.,	Mechanic, 53 Wilbraham road.
Paige, Charles S.	17 Demond ave.,	Foreman, Wason ave.
Paige, Edward O.,	25 Burlington st.,	Case Hardener, 983 Main st.
Paine, Arthur H.,	38 Main st.,	Electrician, 46 Taylor st.
Palmer, Philip L.,	11 Priscilla st.,	Traveling Salesman, 180 Lyman st.
Parker, Charles,	182 State st.,	Picture Mat Maker, Warwick ave.
Parker, Charles A. H.,	40 High st.,	Clerk, 49 Boylston st.
Parker, Ward S.,	33 Centre st.,	Repairman, 837 State st.
Parks, Marvin B.,	509 Oak st., I. O.,	Foreman, Worcester st., I. O.
Parrish, Walter A.,	30 Mill st.,	Public Auditor, 30 Mill st.
Parsons, Frederick D.,	269 Union st.,	Insurance Agent, 414 Main st.
Parsons, Harold E.,	49 Walden st.,	Clerk, 480 Main st.
Paulk, Raymond C.,	314 Central st.,	Repairman, 837 State st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Paul, William E.,	310 Central st.,	Cigar Maker, 457 Worthington st.
Payne, George S.,	70 Catharine st.,	Artist, 70 Catharine st.
Pearson, Henry,	578 North Main st.,	Consulting Engineer, Wason ave.
Pease, Charles L.,	43 Reed st.,	Salesman, 29 Vinton st.
Pease, Frank W.,	14 School st.,	Foreman, 357 Main st.
Pelkey, George Albert,	363 North Main st.,	Not employed.
Pelton, Joseph C.,	16 Thomas st.,	Foreman, 43 Exchange st., Chicopee.
Pepper, Robert C.,	42 Sumner ter.,	Bookkeeper, 307 Main st.
Perkins, Charles E.,	34 Hebron st.,	Photographer, 33 Lyman st.
Perkins, Charles F.,	N. S. Switzer ave.,	Machinist, Stockbridge st.
Perkins, Eugene C.,	30 Kimberly ave.,	Commercial Traveler, Dunker & Perkins, Boston.
Perkins, George S.,	21 Forest st.,	Draftsman, 620 North Main st.
Perkins, Lyman H.,	53 Jefferson ave.,	Carpenter, about the City.
Perron, Henri,	S. S. Island Pond rd.,	Wine Clerk, 485 State st.
Perry, Bertrand J.,	19 Bedford road,	Assistant Superintendent, 500 Main st.
Pierce, Arthur F.,	332 Bay st.,	Proprietor, 356 Bay st.
Pierce, Everett A.,	15 Buckingham pl.,	Real Estate Dealer, 264 Main st.
Pierce, Leon L.,	140 Chestnut st.,	Manager, 140 Chestnut st.
Pierrepont, Herbert M.,	31 Bancroft st.,	Machinist, cor. Fulton and Emery sts.
Poole, George A.,	77 Beaumont st.,	Draftsman, Oak st., Chicopee Falls.
Poole, James C.,	24 Besse pl.,	Merchant, 340 Main st.
Porter, Charles B.,	14 Wilmont st.,	Printer, 195 State st.
Porter, Robert,	46 Vinton st.,	Grocery Clerk, 178 Oakland st.
Porter, Walter J.,	43 Broad st.,	Welding Business, 12 Willow st.
Ports, Ralph A.,	134 Bristol st.,	Lithographer, 144 Wilbraham ave.
Potter, Adrian Leon, Jr.,	101 Wilbraham road,	Inspector, Administration Building.
Potter, Frank W.,	139 Bowles st.,	Photographer, 139 Bowles st.
Potter, Wallace M.,	623 Main st.,	Machinist, Stockbridge st.
Powers, George H.,	39 Grant st.,	Druggist, 946 Worthington st.
Pratt, Fred D.,	426 Sumner ave.,	Clerk, 385 Main st.
Pratt, William J.,	414 North Main st.,	Clerk, North Main st.
Preston, Frank H.,	210 Atwater ter.,	Appraiser, 63 Elm st.
Prevost, John W.,	963 Sumner ave.,	Contractor and Builder, 963 Sumner ave.
Price, Charles A., Jr.,	17 Rochelle st.,	Salesman, 35 Railroad st., Holyoke.
Price, Frank W.,	S S. Boston road,	Machinist, 837 State st.
Proctor, Charles B.,	257 Fort Pleasant ave.,	Real Estate Dealer, 476 Main st.
Prouty, George C.,	71 Avon pl.,	Manufacturer, 225 Main st.
Prouty, Ralph Gardner,	20 Biltmore st.,	Foreman, 209 Alden st.
Punderson, Henry F.,	21 Riverview st.,	Coal Dealer, 138 State st.
Pynchon, Joseph F.,	52 Oxford st.,	Paper Manufacturer, 318 Main st

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Queenan, John,	61 Clantoy st.,	Teamster, for the City.
Quinlivan, Edward G.,	4 Eagle st.,	Night Watchman, B. & M. R. R.
Quinlivan, Thomas F.,	31 Bartlett ave.,	Tire Maker, Oak st., Chicopee Falls.
Quinlivan, Thomas P.,	415 Chestnut st.,	Elevator Conductor, Oak st., Chicopee Falls.
Quinn, James J.,	91 Pine st.,	Clerk, Union Station.
Quinn, William F.,	92 Wilbraham ave.,	Meat Cutter, 373–375 Main st.
Quirk, Dennis J.,	122 Magazine st.,	Master Plumber, 429 State st.
Quirk, James J.,	223 Plainfield st.,	Yardman, 195 Armory st.
Quirk, John T.,	34 Armory st.,	Master Plumber, 429 State st.
Rackliffe, Benjamin D.,	574 Dickinson st.,	Proprietor, 507 Sumner ave.
Radner, Louis,	600 Belmont ave.,	Manager, 275 Main st.
Ramsdell, Frank B.,	82 Bloomfield st.,	Steam Fitter, Lumsden Vanstone Co., Boston.
Randall, Ernest A.,	31 Denton circle,	Machinist, 83 Broadway, Chicopee Falls.
Ransehousen, Lyman A.,	147 Belmont ave.,	Salesman, 147 Belmont ave.
Ray, G. Avery,	42 Bay st.,	Real Estate Dealer, 42 Bay st.
Raymond, Tracy S.,	84 Allen st.,	Engineer, Chestnut Street School.
Raynes, Sheldon P.,	23 Sumner ter.,	Butcher, 373 Main st.
Reade, Thomas N.,	22 Greenwich st.,	Motorman, 5 North Main st.
Reagan, Timothy,	27 Plymouth st.,	Bartender, 74 Water st.
Reardon, Edward J.,	291 Oakland st.,	Shop Hand, Willow st.
Reece, Earl J.,	179 Wilbraham road,	Not employed.
Regan, Daniel J.,	101 Oak st.,	Cigar Maker, 258 Main st.
Reilly, John A.,	60 Byers st.,	Unemployed.
Remillard, Louis N.,	1084 Carew st.,	Unemployed.
Renison, Patrick,	26 Summit st.,	Tailor, 244 Main st.
Reopell, Albert V.,	34 Myrtle st.,	Automobile Dealer, 687 State st.
Rey, William K.,	129 Bowles st.,	Manager, 37 Lyman st.
Reynolds, Maurice F.,	75 Pomona st.,	Clerk, 319 Main st.
Rice, Francis W.,	149 Oakland st.,	Inspector, Stockbridge st.
Rice, George William, Jr.,	119 Westford ave.,	Paymaster, Municipal Building.
Rice, Walter F.,	53 Atwater ter.,	Lumber Business, 307 Main st.
Rich, Harold L.,	120 Massasoit st.,	Profiling, 83 Broadway, Chicopee Falls.
Richard, Harry J.,	11 Murray Hill ave.,	Druggist, 194 Main st.
Richardson, Perley B.,	61 Crystal ave.,	Jeweler, 418 Main st.
Richmond, Isaac,	833 Chestnut st.,	Merchant, 222 Chestnut st.
Riley, Francis J.,	152 Pendleton ave.,	Stock Clerk, 73 Park st.
Riley, William O.,	118 Orleans st.,	Laborer, Street Department.
Ringwalt, Joseph C.,	22 Winthrop st.,	Night Watchman, 392 Main st.
Rister, William H.,	110 Tyler st.,	Carpenter, 110 Tyler st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Robbins, Fred W.,	234 Allen st.,	Foreman and Janitor, 29 Worthington st.
Roberts, Arthur J.,	Gray's ave.,	Teamster, Union Station.
Roberts, Edward John,	176 Pendleton ave.,	Printing Pressman, 27 Worthington st.
Roberts, Godfrey,	102 Abbe ave.,	Carpenter, Springfield and Suburbs.
Roberts, George E.,	114 Cambridge st.,	Foreman, Worcester st., I. O.
Roberts, Joseph H.,	34 Worcester ave.,	Carpenter, 336 Birnie ave.
Roberts, Samuel C.,	264 Main st.,	Music Teacher, 264 Main st.
Robertson, Fred L.,	19 Sachem st.,	Chemist, 137½ State st.
Robertson, Oliver P.,	587½ Main st.,	Furniture Dealer, 135 Union st.
Robinson, Daniel E.,	25 North Main st.,	Manager, 187 Chestnut st.
Rodgers, Clarence M.,	27 Forest Park ave.,	Salesman, 98 Tyler st.
Rodhouse, Walter E.,	574 Chestnut st.,	Manufacturer, 216 Worthington st.
Roger, Alphonse,	19 Central st.,	Barber, 180 State st.
Rogers, Clarence A.,	2 Pasco st.,	Plumber, 172 Main st., I. O.
Rogers, Josiah W.,	55 Horace st.,	Foreman, Unemployed.
Rogers, W. Clifton,	58 Lakeside ave.,	Traveling Salesman, U. S. Rubber Co., Cleveland, Ohio.
Rohrbach, Oliver B.,	28 Charter ave.,	Stationary Fireman, 340 Main st.
Rollins, Harvey E.,	14 Osgood st.,	Clerk, 138 Main st.
Root, Frederick R.,	40 High st.,	Salesman, 357 Main st.
Root, William O.,	435 Walnut st.,	Real Estate Dealer, about the City.
Rosever, Milo S.,	88 Dunmoreland st.,	Salesman, 129 State st.
Ross, Robert B.,	33 Beacon st.,	Stereotyper, 381 Main st.
Royce, Robert A.,	95 Sumner ave.,	Laundryman, 21 Clinton st.
Rumrill, Herbert E.,	147 Belmont ave.,	Salesman, 129 State st.
Runnells, Earnest F.,	122 Fort Pleasant ave.,	Lumber Salesman, A. J. Chestnut Lumber Co. Buffalo, N. Y.
Ruppel, John W.,	63 Patton st.,	Storekeeper, 69 Main st.
Rush, Charles H.,	N. S. Berkshire ave.,	Filer, 55 Stockbridge st.
Rush, William,	575 Berkshire ave., I. O.,	Builder, 575 Berkshire ave., I. O.
Russell, Frank L.,	28 Continental st.,	Retired.
Ryan, Jeremiah F.,	111 Butler st.,	Tire Finisher, Oak st., Chicopee Falls.
Rynn, Frank J.,	90 Amherst st.,	Telegraph Operator, 283 Main st.
Samble, Charles,	76 Armory st.,	Wire Weaver, Warwick ave.
Sampson, George C.,	113 Alden st.,	Watchman, 160 Wilbraham ave.
Sanderson, William H.,	16 Marlborough st.,	Foreman, foot of Howard st.
Sawtelle, Donald H.,	84 Beaumont st.,	Bookkeeper, 294 Main st.
Sawyer, Charles A.,	4 Atwood pl.,	Carpenter, 14–16 Stockbridge st.
Scannell, Michael E.,	83 Armory st.,	Brick Layer, Unemployed.
Schelb, August W.,	67 Lebanon st.,	Chauffeur, 575 Main st.
Schenerle, John A.,	470 Belmont ave.,	Secretary, 244 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Schlatter, William J.,	449 Bay st.,	Florist, 422 Main st.
Schnetzer, George W.,	691 Belmont ave.,	Polisher, 4 Birnie ave.
Schofield, Harry,	512 Chestnut st.,	Foreman, 181 Dwight st.
Scott, Alfred D.,	38 Lafayette st.,	Manager, 262 Liberty st.
Scott, William A.,	267 Main st.,	Manager, 697 Main st.
Seabury, Kendall E.,	264 Franklin st.,	Clerk, Oak st., Chicopee Falls.
Searles, Clifford M.,	14 Princeton st.,	Chauffeur, 16 Sanford st.
Searles, George W.,	18 Whittier ave.,	Automobile Business, 523 Belmont ave.
Seaver, Edward J.,	141 Berkshire st.,	Machinist, 837 State st.
Seaver, Winfred C.,	5 Bloomfield st.,	Chauffeur, Bent Lumber Co., North Main st.
Sebring, Wesley R.,	43 Greene st.,	Machinist, 837 State st.
Sedelow, Fred,	232 Parker st.,	Barber, I. O.
Senecal, Albany,	209 Pendleton ave.,	Carriage Builder, 15 Park st.
Sewall, Robert L.,	917 Sumner ave.,	Lithographer Designer, 140 Wilbraham ave.
Shaftoe, James T.,	29 West Alvord st.,	Optician, 68 Main st.
Shaw, Harry,	231 Main st., I. O.,	Weaver, Indian Orchard Co., I. O.
Shea, Augustus A.,	94 Pearl st.,	Electrical Contractor, 296 Worthington st.
Shea, Edward P.,	427 Chestnut st.,	Electrician, Oak st., Chicopee Falls.
Shea, Frank H.,	791 Main st.,	Printer, 17 Worthington st.
Shea, Jeremiah G.,	1308 North st.,	Foreman, 499 Main st.
Shea, John F.,	23 Narragansett st.,	Electrical Inspector, General Work.
Shea, Michael C.,	150 Bond st.,	Contractor, 150 Bond st.
Shea, Michael J.,	20 Myrtle st.,	Carpet Salesman, 392 Main st.
Shea, Patrick F.,	62 Calhoun st.,	Theatrical Business, 62 Calhoun st.
Shea, Timothy,	142 Bond st.,	Repairer, 5 North Main st.
Shea, Timothy,	79 Leete st.,	Oar Maker, 53 Union st.
Shean, Charles T.,	3 John st.,	Hotel Owner, 140 Chestnut st.
Shedd, Philip H.,	106 Florida st.,	Lithographer, Warwick ave.
Sheehan, Edward J.,	41 Linden st.,	Jeweler, 332 Main st.
Sheehan, John M.,	119 Federal st.,	Printer, 381 Main st.
Sheehan, Terrence F.,	216 Pearl st.,	Florist, 136 State st.
Sheehan, Thomas E.,	41 Linden st.,	Manager, 200–202 Main st.
Sheehan, Thomas F.,	220 Pearl st.,	Monumental Works, 538 Main st.
Shepardson, Merton A.,	64 Avon pl.,	Extract Business, 67 Taylor st.
Shepherd, William H.,	36 Sargeant st.,	District Passenger Agent, 244 Main st.
Sherburne, James S.,	28 Roseland st.,	Proof Reader, 381 Main st.
Sheridan, Thomas J.,	30 Myrtle st.,	Real Estate Dealer, 31 Elm st.
Sibley, Charles E.,	224 Oakland st.,	Machinist, Dwight st.
Sickler, John P.,	37 Demond ave.,	Gauge Inspector, 86 Broadway, Chicopee Falls.
Simmons, Edgar S.,	164 College st.,	Paper Cutter, 21 Cypress st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Simons, Philip W.,	200 Maple st.,	Clerk, foot of Jackson st., Holyoke.
Sloan, Frank Edward,	134 Cedar st.,	Painter, 41 Sumner ter.
Smith, Arthur G.,	130 Hastings st.,	Superintendent, 86 Broadway, Chicopee Falls.
Smith, Charles F.,	46 Wight pl.,	Cook, 64 Bridge st.
Smith, Edward O.,	196 Pearl st.,	Wholesale Grocer, 24 Lyman st.
Smith, Frank W.,	18 King st.,	Millwright, 171 Wason ave.
Smith, Fred E.,	62 Greenwich st.,	Foreman, 68 Birnie ave.
Smith, Herbert M.,	49 Osgood st.,	Broker, 264 Main st.
Smith, James H.,	5 Sumner ter.,	Lunchroom Business, 246 Main st.
Smith, Leonard F.,	24 Coomes ave.,	Clerk, 58 Harrison ave.
Smith, Myrton T.,	39 Massachusetts ave.,	Insurance Agent, 387 Main st.
Smith, Rodney Lawrence,	226 Pearl st.,	Wholesaler, 23 Hampden st.
Smyth, W. Hamilton,	36 Churchill st.,	Salesman, 235 Mill st.
Snow, Raymond E.,	41 Kimberly ave.,	Civil Engineer, Water Department, City.
Snowman, Elmer C.,	243 Massasoit st.,	Lunch Business, 17 North Main st.
Soultaire, William F.,	62 Winthrop st.,	Department Manager, 116 Broadway.
Spaight, Harry A.,	19 Winthrop st.,	Manager, Stearns Square.
Spangler, Robert W.,	523 Wilbraham road,	Commercial Traveler, Fairfield, Iowa.
Spaulding, Walter L.,	67 Berkshire st., I. O.,	Clerk, I. O.
Spill, Charles J.,	41 Trafton rd.,	Manager, Howard st.
Spittal, Andrew B., Jr.,	106 Massasoit st.,	Composer, 381 Main st.
Springer, John, Jr.,	470 Chestnut st.,	Superintendent, 123 Carew st.
Squires, Charles E.,	83 Central st.,	Not employed.
Stacy, Richard H.,	11 Kenwood park,	Retired.
Stearns, Edwin F.,	31 Maple st.,	Insurance Agent, 317 Main st.
Stebbins, Alfred Zozine,	8 Clermont st.,	Boss Weaver, Hodges Fibre Carpet Co., I. O.
Stebbins, Carlton E.,	43 Villa Parkway,	Clerk, 215 State st.
Stebbins, Leonard S.,	90 Fairfield st.,	Dentist, 90 Fairfield st.
Stedman, Fred C.,	82 Marengo Park,	Insurance Agent, 393 Bridge st.
Steele, Charles H.,	5 Brown st.,	Manufacturer, 5 Brown st.
Steele, Fred E.,	179 Oak Grove ave.,	Clerk, 195 State st.
Steele, Walter B.,	399 Orange st.,	Chauffeur, 499 Main st.
Steere, G. Doubleday,	16 Patton st.,	Manager, 17 Worthington st.
Steere, Merrill B.,	34 King st.,	Electrical Worker, 283 Worthington st.
Steinkuhler, George H.,	40 High st.,	Cigar Dealer, 219 Main st.
Sternburg, Kurt Rudolph,	24 Chapin ter.,	Manager, foot of Howard st.
Sterns, Frank D.,	38 Crystal ave.,	Machinist, 86 Broadway, Chicopee Falls.
Stewart, Albert E.,	40 High st.,	Manager, 345 Main st.
St. Germain, Dolphus J.,	33 Salem st.,	Laborer, 152 Lyman st.
Stinson, David R.,	49 Orleans st.,	Civil Engineer, 274 Main st.
Stoddard, Edward C.,	152 Dwight st.,	Electrician, 152 Dwight st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Stoddard, Lafayette,	14 Mattoon st.,	Sign Painter, 275 Main st.
Stone, Charles F.,	25 Vine st.,	Janitor, 274 Main st.
Story, Walter S.,	37 Dexter st.,	Life Insurance Agent, 500 Main st.
Strang, Oscar H.,	622 Sumner ave.,	Merchant, 487 Main st.
Stratton, G. Perley,	127 Marlborough st.,	Builder, 127 Marlborough st.
Streeter, Herbert E.,	219 Oak Grove ave.,	Manager, 16 W. 61st st., New York, N. Y.
Sturtevant, Frank F.,	420 Main st.,	Clothing Clerk, 165 Worthington st.
Sturtevant, George A.,	31 Maple st.,	Clerk, 144 State st.
Sullivan, Cornelius J.,	129 Wilbraham ave.,	Machinist, 53 Wilbraham rd.
Sullivan, Daniel E.,	275 Main st., I. O.,	Liquor Dealer, 282 Main st., I. O.
Sullivan, Daniel J.,	35 Donald st.,	Foreman, 354 Birnie ave.
Sullivan, Jeremiah J.,	20 Denton circle,	Egg Candler, 140 Lyman st.
Sullivan, John J.,	7 Greenwich st.,	Express Business, 7 Greenwich st.
Sullivan, John M.,	57 Everett st.,	Printer, 220 Franklin st.
Sullivan, Michael,	41 Alden st.,	Plumber, 41 Alden st.
Sullivan, Thomas,	210 King st.,	Electrician, 6 Court st.
Sullivan, Timothy,	91 Grenada ter.,	Contractor, 91 Grenada ter.
Sullivan, Timothy J., Jr.,	135 Thompson st.,	Coal Dealer, 310 Main st.
Sullivan, William,	727 Carew st.,	Steamfitter, Oak st., Chicopee Falls.
Supernaw, Joseph,	187 Hampshire st., I.O.,	Painter and Paper Hanger, 187 Hampshire st., I. O.
Swaine, George F.,	448 Dickinson st.,	Blacksmith, 31 Cypress st.
Swan, Frederic R.,	88 Bellevue st.,	Paper Maker, 20 Hanover st.
Sweeney, Daniel C.,	50 Massachusetts ave.,	Salesman, 392 Main st.
Sweeney, Thomas A.,	282 Central st.,	Grocer, 17 Walnut st.
Sword, Winthrop G.,	139 Euclid ave.,	Shipping Clerk, 17 Worthington st.
Swords, Peter J.,	161 Hancock st.,	Steam Fitter, 161 Hancock st.
Sylvester, Jerymie,	99 Maynard st.,	Polisher, Page boulevard.
Syner, Harry H.,	17 Cherrelyn st.,	Auditor, 500 Main st.
Tait, George G.,	37 Vinton st.,	Milk Dealer, 134 Cass st.
Talmadge, Newton E.,	347 Walnut st.,	Inspector, Page boulevard.
Tanner, Charles A.,	39 Gardner st.,	Machinist, Page boulevard.
Tapley, Albert P.,	22 Cornell st.,	Assistant Superintendent, 57 Willow st.
Tate, William J.,	36 Massasoit st.,	Cabinet Maker, 49 Boylston st.
Tatro, Roy B.,	43 Dorn st.,	Envelope Cutter, 149 Wason ave.
Taylor, Albert C.,	708 Chestnut st.,	Bookkeeper, Brightwood.
Taylor, Arthur G.,	12 Ventura st.,	Office Manager, 269 Bridge st.
Taylor, Crosland, 2d,	174 King st.,	Janitor, High School of Commerce.
Taylor, Edgar R.,	72 Hall st.,	Foreman, 133-145 Bridge st.
Taylor, William J.,	356 Belmont ave.,	Bookkeeper, 216 Worthington st.
Teagan, Francis J.,	15 Girard ave.,	Clerk, 837 State st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Terwilliger, James H.,	54 Hollywood st.,	Chauffeur, 194 Sumner ave.
Thayer, Byron P.,	25 Dawson ave.,	Painter, 25 Dawson ave.
Thomas, Charles J.,	3 Central st.,	Chauffeur, 517 Main st.
Thomas, Frank P.,	54 Hebron st.,	Night Watchman, Oak st., Chicopee Falls.
Thomas, George H.,	20 Allen st.,	Clerk, 195 Pine st.
Thomas, John J.,	56 Webster st.,	Lithographer, Unemployed.
Thomas, Peter R.,	172 William st.,	Carpenter, 535½ Main st.
Thompson, Albert G.,	4 Hampden st.,	Engineer, Pine st., I. O.
Thompson, Charles H.,	Garfield st.,	Salesman, 17 Worthington st.
Thompson, Egbert H.,	51 Daytona st.,	Foreman, 225 Liberty st.
Thornton, Michael J.,	361 North Main st.,	Foreman, Brightwood.
Thrasher, Homer D.,	17 Homer st.,	Waiter, Highland Hotel, Hillman st.
Thurston, George E.,	48 Abbe ave.,	Tool Maker, Broad, Cor. Hanover st.
Titus, Charles E.,	52 Adams st.,	Salesman, 566 Atlantic ave., Boston, Mass.
Titus, William M.,	140 Chestnut st.,	President and General Manager, 405 Dwight st.
Tolman, Frank W.,	13 Underwood st.,	Manager, 317 Liberty st.
Toomey, James F.,	20 Cleveland st.,	Lithographer, Warwick ave.
Toomey, Michael S.,	119 Hancock st.,	Plumber, 241 Main st.
Topham, William H., Jr.,	75 Avon pl.,	Traveling Salesman, Blanchard Bros., Brooklyn, N. Y
Torrey, Frank C.,	26½ Walnut st.,	Bartender, 23 Walnut st.
Tower, Albert D.,	10 Huntington st.,	Foreman, 156 Wason ave.
Tower, Herbert L.,	72 Sorrento st.,	Clerk, 500 Main st.
Towne, Willis L.,	10 Chestnut st.,	Photographer, 508 Main st.
Tracy, Charles A.,	282 Central st.,	Brick Mason, Foot of State st.
Tracy, Harry E.,	787 Main st.,	Salesman, 336 Bridge st.
Tracy, Wilbur F.,	84 Denver st.,	Tool Maker, 86 Broadway, Chicopee Falls.
Tucker, Orland W.,	68 Larkspur st.,	Contractor, 68 Larkspur st.
Tucker, Samuel D.,	26 Birnie ave.,	Designer, Wason ave.
Tufts, Willard E.,	156 Bowdoin st.,	Delivery Business, 31 Lyman st.
Tuohey, William H.,	93 Massachusetts ave.,	Contractor, 332 Dwight st.
Tuohy, James A.,	51 James st.,	Traveling Salesman, 55 Lyman st.
Turner, Frank A.,	89 Cambridge st.,	Machinist, 837 State st.
Turner, Herbert H.,	751 Belmont ave.,	Paymaster, 27 Lyman st.
Tuthill, Clinton H.,	685 State st.,	Salesman, 101 Liberty st.
Tyler, John K.,	15 Myrtle st.,	Cashier, 34 Wilbraham road.
Underwood, Dwight L.,	149 Bowles st.,	Plumber, 39 Cedar st.
Underwood, James T.,	1035 Berkshire ave.,	Printer, 53 Hillman st.
Upton, G. Herbert,	314 Wilbraham road,	Machinist, 837 State st.
Utess, William J.,	11 Mattoon st.,	Foreman, 420 Dwight st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Vaughan, Ellwood B.,	834 Sumner ave.,	Contractor, 1082 Main st.
Vincent, Albert J.,	67 Horace st.,	Barber, 246 Worthington st.
Vincent, Joseph C.,	866 Worthington st.,	Bartender, 547½ Main st.
Vines, Shirley J.,	22 Belgrade pl.,	Envelope Adjuster, Whiting Paper Co., Holyoke.
Vinton, George E.,	16 Kenwood ter.,	Foreman, 29 Worthington st.
Vogel, Henry J.,	17 Bay st.,	Assistant Manager, Union Station.
Vossler, John J.,	29 Lebanon st.,	Foreman, 160 Wilbraham ave.
Wade, Homer A.,	135 Florence st.,	Clerk, 500 Main st.
Wagner, August Henry,	37 Pendleton ave.,	Baker, 90 Main st.
Waite, Frederick L.,	36 Grenada ter.,	Clerk, Oak st., Chicopee Falls.
Walker, Archibald,	25 Lebanon st.,	Bookkeeper, Electric Light Co., Alden st.
Walker, Arthur A.,	79 Central st.,	Cigar Maker, 258 Main st.
Walker, Carl M.,	39 Wilmont st.,	Chemist, 35 State st.
Walker, Robert M.,	107 Dawes st.,	Inspector, 86 Broadway, Chicopee Falls.
Walker, Thomas,	13 Clifton ave.,	Shipping Clerk, 41 Taylor st.
Wallace, Andrew B., Jr.,	47 Ridgewood ter.,	Merchant, 392 Main st.
Wallin, John W.,	39 Mooreland st.,	Machinist, 56 Harrison ave.
Walls, James F.,	81 Clarendon st.,	Master Plumber, 10 Court House pl
Walsh, John J.,	171 Abbe ave.,	Machinist, North Main st.
Walters, Frederick K.,	14 Hawley st.,	Cutter, 387 Main st.
Walters, George S.,	14 Howard pl.,	Grocer, 75 Willow st.
Walters, William L.,	178 Maple st.,	Salesman, 295 Main st.
Ward, Herbert P.,	21 Kenwood ter.,	Advertising Manager, 54 Fort st.
Ward, Samuel H.,	521 Wilbraham road,	Dyer, 14 Harrison ave.
Warner, Fred W.,	W. S. Parker st.,	Farmer, W. S. Parker st.
Warren, Robert F.,	6 Sumner ave.,	Salesman, Walker st.
Washburn, Frank I.,	340 Belmont ave.,	Salesman, 361 Dwight st.
Washburn, K. Norman,	37 Pineywoods ave.,	Lexicographer, 17 Worthington st.
Watson, Emory C.,	133 Maple st.,	Assistant Treasurer, 40 Napier st.
Watson, William A.,	172 Jasper st.,	Foreman, 86 Broadway, Chicopee Falls.
Webster, Frank G.,	75 Buckingham st.,	Foreman, 38 Cass st.
Weeks, William I.,	124 Florence st.,	Grocer, 569 Worthington st.
Welch, John J.,	61 Nelson ave.,	Grocer, 240 Walnut st.
Welch, Thomas J.,	78 Charles st.,	Proprietor, 420 Dwight st.
Welch, William E.,	848 Belmont ave.,	Insurance Agent, 318 Main st.
Wells, Charles E.,	28 Brown st.,	Treasurer, 2 Park st.
Werner, Henry A.,	171 Chestnut st.,	Employed Victor Sporting Goods Co., 88 Birnie ave.
Wetherell, Harold E.,	37 Armory st.,	Bookkeeper, 49 Taylor st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION
Wharfield, Wilfred M.,	107 Euclid ave.,	Bookkeeper, 21 Cypress st.
Wheelden, Walter G.,	66 Noel st.,	Foreman, Forest Park.
Wheeler, Charles A.,	7 Winthrop st.,	Real Estate Dealer, 317 Main st.
Wheeler, Fred N.,	26 Westford ave.,	Druggist, 802 State st.
Whipple, Julius H.,	48 Pearl st.,	Investment Broker, 31 Elm st.
Whitaker, Cyrus A.,	39 Osgood st.,	Motorman, 5 North Main st.
White, Arthur W.,	59 King st.,	Electrician, 411 Main st.
White, Leveritt E.,	83 Euclid ave.,	Proprietor, 90 Andrew st.
Whitelock, Samuel F.,	82 Pearl st.,	Cigar Maker, 457 Worthington st.
Whitlock, Frank L.,	74 Jefferson ave.,	Teller, Cor. Main and Fort sts.
Whyte, Duncan M.,	144 White st.,	Electrician, 46 Taylor st.
Wiegand, Carl Anton,	32 Birnie ave.,	Electric Lamp Maker, 30 Taylor st.
Wieprecht, Theodore W.,	93 Girard ave.,	Meat Cutter, Not employed.
Wight, Sprague L.,	24 Gordon st.,	Clerk, 500 Main st.
Wilbur, Arthur E.,	20 Pine st.,	Electrotyper, 53 Hillman st.
Wilkinson, David,	140 Hampden st., I. O.,	Foreman, Pine st., I. O.
Willard, Frank D.,	8 Smith st.,	Filer, Page boulevard.
Williams, Edwin L.,	157 Trafton road,	Treasurer, 67 Taylor st.
Williams, Frank,	30 Lombard st.,	General Work, Unemployed.
Williams, Richard,	908 Berkshire ave.,	Barrel Straightener, Page boulevard.
Willis, Merle E.,	69 Union st.,	Stage Hand, 11 Elm st.
Wilson, Arthur E.,	911 Sumner ave.,	Starter, 5 North Main st.
Wilson, Herbert J.,	15 Blake Hill,	Meat Cutter, 326 St. James ave.
Wilson, Raymond C.,	28 Andrew st.,	Draftsman, Trego, New Haven, Conn.
Wing, George H.,	42 Berkeley st.,	Parcel Delivery, 391 Main st.
Winslow, Cornelius V. N.,	81 King st.,	Grocer, 157 Hancock st.
Winter, Arthur G.,	Champlain ave., I. O.,	Compositor, 53 Hillman st.
Winter, Edson P.,	57 High st.,	Manager, 58 Harrison ave.
Winters, Lawrence,	288 Armory st.,	Salesman, 435 Dwight st.
Withee, Fred T.,	43 Norfolk st.,	Assembler, 837 State st.
Wood, Charles A.,	20 Montmorenci st.,	Bookkeeper, 539 Main st.
Wood, George H.,	24 Besse pl.,	Paper Cutter, 29 Sheffield st.
Wood, Walter G.,	34 Berkeley st.,	Draftsman, Oak st., Chicopee Falls.
Wood, William,	22 Church st.,	Machinist, 405 Dwight st.
Woodall, J. Swift,	685 State st.,	Insurance Agent, 29 Worthington st.
Woodbury, Milo K.,	672 Chestnut st.,	Grocer, 144 Main st.
Woods, Alfred E.,	26 Besse pl.,	Foreman, Freight House, Water st.
Woodward, Harry W.,	35 Washington st.,	Repairman, Page boulevard.
Work, Rufus T.,	536 Longmeadow st.,	Merchant, 813 State st.
Worth, Parker,	15 Pine st.,	Printer, 381 Main st.
Worthington, Albert E.,	708 Chestnut st.,	Not employed.
Wright, Charles A.,	45 Bay st.,	Grocer, 473 State st.
Wright, Charles H.,	56 Vermont st.,	General Contractor, 56 Vermont st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Yando, Herbert B.,	556 Main st.,	Collector, 289 Main st.
Yardley, William H.,	18 Noble st.,	Foreman, 149 Wason ave.
Yarlott, Albert E.,	6 Springfield st.,	Steward, B. & A. R. R.
Yeaton, Lester H.,	55 James st.,	Salesman, 357 Main st.
Young, Wilmot O.,	36 Maple st.,	Bookkeeper, 500 Main st.
Yumker, Arthur H.,	862 Belmont ave.,	Manager, 381 Main st

CITY OF SPRINGFIELD, June 23, 1917.

The foregoing is a list of jurors prepared for the City of Springfield under the provisions of law applicable thereto.

JOHN W. NOLAN,
WARREN P. UNDERWOOD,
STEPHEN F. BIBLE,
ELIJAH A. NEWELL,
Registrars of Voters.

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CITY AUDITOR.

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THE CITY OF
SPRINGFIELD, MASSACHUSETTS.
AUDITING DEPARTMENT.

DECEMBER 31, 1917.

To His Honor the Mayor, and the City Council:—

During the fiscal year ended on November 30, 1917, this department has audited all bills and pay rolls presented for payment. It has also, as required by ordinance, made the quarterly examinations of the accounts of the City Treasurer and of the Water Department, and the semi-annual examinations of the accounts of the City Clerk and of the City Collector, all of which have been found correct.

The accounts of the Treasurer for the Commissioners of the Sinking Funds have been examined by this department and found correct.

The regular financial statements, schedules, etc., are being prepared and will be presented later.

Respectfully submitted,

WM. G. McINTYRE,
City Auditor.

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CONSOLIDATED BALANCE SHEET.
(After Closing.)

CITY OF SPRINGFIELD, MASS.
November 30, 1917.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
ASSETS:						
Cash in Banks and Office of City Treasurer,	$455,592.55	*$124,449.49*	$80,948.28	$475,784.50	$1,706.20	$21,603.06
Revenues and Accounts Receivable (Schedule A),	1,043,768.19	976,239.81	67,528.38			
Property (Schedule B)	19,305,390.74		5,650,646.12	13,654,744.62		
Stores (Schedule K),	172,967.82	43,676.38	129,291.44			
Investments,	1,003,250.00				973,250.00	30,000.00
Total Assets,	$21,980,969.30	$895,466.70	$5,928,414.22	$14,130,529.12	$974,956.20	$51,603.06
LIABILITIES:						
Warrants Payable,	$233,043.83	$101,205.51	$95,673.97	$36,164.35		
Bonded Indebtedness (Schedule C):						
City Bonds—Outside Limit,	$1,976,000.00			$1,976,000.00		
City Bonds—Within Limit,	4,538,200.00			4,538,200.00		
Public Utility Bonds,	2,118,000.00		$2,118,000.00			
Total Bonds Outstanding,	$8,632,200.00		$2,118,000.00	$6,514,200.00		
Less Sinking Fund Reserves,	974,956.20		153,736.99	821,219.21		
Net Bonded Indebtedness,	$7,657,243.80		$1,964,263.01	$5,692,980.79		

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CONSOLIDATED BALANCE SHEET.—Continued.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
Reserves:						
For Redemption of Bonds,	$974,956.20		$153,736.99	$821,219.21		
For Abatement of Taxes,	73,089.20	$73.089.20				
For Abatement of Accounts Receivable,	7,984.62	7,646.98	337.64			
For Depreciation of Property,	37,398.60		37,398.60			
For Lombard Reservoir Lot Fund,	300.00		300.00			
For Extraordinary and Unforeseen Expenses,	2,208.36	2,208.36				
Total Reserves,	$1,095,936.98	$82,944.54	$191,773.23	$821,219.21		
Sinking Funds,	$974,956.20				$974,956.20	
Special Funds:						
Sherman D. Porter Fund,	$10,293.53					$10,293.53
Court Square Extension Fund,	30,422.44					30,422.44
Gurdon Bill Fund,	4,713.60					4,713.60
Helen M. Hosley Fund,	4,628.13					4,628.13
Charles S. Marsh Fund,	312.21					312.21
William H. Smith Fund,	614.82					614.82
McKinley Monument Fund,	618.33					618.33
Total Special Funds,	$51,603.06					$51,603.06
Total Liabilities,	$10,012,783.87	$184,150.05	$2,251,710.21	$6,550,364.35	$974,956.20	$51,603.06
Excess of Assets:						
Surplus,	11,968,185.43	711,316.65	3,676,704.01	7,580,164.77		
	$21,980,969.30	$895,466.70	$5,928,414.22	$14,130,529.12	$974,956.20	$51,603.06

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CONSOLIDATED FUND STATEMENT.
(After Closing.)
CITY OF SPRINGFIELD, MASS.
November 30, 1917.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
RESOURCES:						
Unapplied Cash,	$222,548.72	*$225,655.00*	*$14,725.69*	$439,620.15	$1,706.20	$21,603.06
Available Resources,	1,043,768.19	976,239.81	67,528.38			
Investments,	1,003,250.00				973,250.00	30,000.00
Authorized Expenditures—Not Financed (Schedule D),	35,792.00			35,792.00		
Total Fund Resources,	$2,305,358.91	$750,584.81	$52,802.69	$475,412.15	$974,956.20	$51,603.06
APPROPRIATIONS AND RESERVES:						
Unencumbered Balances of Appropriations (Schedule E),	$223,708.59	$6,868.62		$216,839.97		
Unappropriated Revenues,	20,122.53	20,122.53				
Premium on Bonds,	3,267.00	3,267.00				
Reserves:						
For Encumbrances of Appropriations (Schedule E),	$297,602.45	$39,030.27		$258,572.18		
For Abatement of Taxes,	73,089.20	73,089.20				
For Abatement of Revenues Accrued,	7,984.62	7,646.98	$337.64			
For Redemption of Public Debt,	974,956.20				$974,956.20	
For Lombard Reservoir Lot Fund,	300.00		300.00			
For Extraordinary and Unforeseen Expenses,	2,208.36	2,208.36				
Total Reserves,	$1,356,140.83	$121,974.81	$637.64	$258,572.18	$974,956.20	
Total Appropriations and Reserves,	$1,603,238.95	$152,236.96	$637.64	$475,412.15	$974,956.20	
Excess:						
Surplus (Schedule F),	702,119.96	598,351.85	52,165.05			$51,603.06
	$2,305,358.91	$750,584.81	$52,802.69	$475,412.15	$974,956.20	$51,603.06

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REVENUES AND ACCOUNTS RECEIVABLE.
(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1916	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1917
GENERAL FUND.							
Miscellaneous Revenues:							
Care at Almshouse—Charities Dept.,	$3,633.70	$7,082.67	$10,716.37	$8,171.01	$938.42	$9,109.43	$1,606.94
Care at Hospital—Health Dept.,	15,431.41	24,937.39	40,368.80	13,294.99	6,792.73	20,087.72	20,281.08
Charges for Services, Public Parks,	.....	51.00	51.00	51.00	.....	51.00	.....
Charges for Services, Engineering,	.....	1.75	1.75	1.75	.....	1.75	.....
Charges for Services, Street Sprinkling, Street Railway,	2,530.40	.....	2,530.40	2,530.40	.....	2,530.40	.....
Fees:							
City Collector,	.....	5,822.17	5,822.17	5,822.17	.....	5,822.17	.....
Public Bathhouses,	.....	1,263.25	1,263.25	1,263.25	.....	1,263.25	.....
Public Sanitary,	.....	474.00	474.00	474.00	.....	474.00	.....
Interest:							
Bank Deposits, City Collector,	.....	1,331.58	1,331.58	1,331.58	.....	1,331.58	.....
Special Assessments,	.....	528 00	528.00	528.00	.....	528.00	.....
Taxes,	.....	19,739.17	19,739.17	19,739.17	.....	19,739.17	.....
Licenses:							
Auctioneers,	.....	48.00	48.00	48.00	.....	48.00	.....
Bowling Alleys,	.....	20.00	20.00	20.00	.....	20.00	.....
Dance,	.....	355.00	355.00	354.00	1.00	355.00	.....
Elevator,	.....	265.00	265.00	227.50	.....	227.50	37.50
Exhibition,	.....	267.00	267.00	267.00	.....	267.00	.....
Express,	.....	261.00	261.00	261.00	.....	261.00	.....
Intelligence Office,	.....	34.00	34.00	34.00	.....	34.00	.....
Jitney,	.....	254.00	254.00	254.00	.....	254.00	.....
Jitney Operators,	.....	50.00	50.00	50.00	.....	50.00	.....
Manicure, Massage, etc.,	.....	7.00	7.00	7.00	.....	7.00	.....
Pawnbrokers,	.....	250.00	250.00	250.00	.....	250.00	.....
Pool Room,	.....	872.00	872.00	872.00	.....	872.00	.....
Ragpickers,	.....	561.00	561.00	561.00	.....	561.00	.....
Removal of Dead Animals,	.....	1.00	1.00	1.00	.....	1.00	.....
Second-Hand Dealers,	.....	124.00	124.00	124.00	.....	124.00	.....
Sunday Theaters,	.....	6,413.00	6,413.00	6,383.00	30.00	6,413.00	.....
Taxicab,	.....	968.00	968.00	968.00	.....	968.00	.....
Theater,	.....	1,250.00	1,250.00	1,150.00	100.00	1,250.00	.....
Vegetable Peddlers,	.....	2,025.00	2,025.00	2,025.00	.....	2,025.00	.....
Moving Picture Receipts, High School of Commerce,	61.15	418.45	479.60	389.00	.....	389.00	90.60

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REVENUES AND ACCOUNTS RECEIVABLE.—Continued.
(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1916	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1917
GENERAL FUND.							
Permits:							
Sewer Entrances,	$418.98	$33,131.81	$33,550.79	$33,390.79	.....	$33,390.79	$160.00
Signs,	4.00	50.00	54.00	53.00	$1.00	54.00	.....
Street Obstructions,	.....	6,968.65	6,968.65	6,902.11	27.04	6,929.15	39.50
Street Openings,	32.75	306.15	338.90	311.30	.....	311.30	27.60
Rents:							
Administration Building,	516.30	3,097.80	3,614.10	3,097.80	.....	3,097.80	516.30
Auditorium,	50.00	240.00	290.00	.....	.....	.....	290.00
Dwight Street Widening,	.....	6,759.53	6,759.53	2,598.23	.....	2,598.23	4,161.30
Equipment—Streets and Engineering,	16.60	352.07	368.67	261.00	1.33	262.33	106.34
Miscellaneous,	346.59	2,254.59	2,601.18	2,129.18	34.00	2,163.18	438.00
Organ,	10.00	.....	10.00	.....	.....	.....	10.00
School Halls,	4.00	614.00	618.00	607.00	.....	607.00	11.00
Schoolhouse Property,	192.40	2,373.33	2,565.73	2,286.00	58.80	2,344.80	220.93
Tuition:							
Central High School,	1,322.00	5,923.50	7,245.50	6,154.00	447.50	6,601.50	644.00
Elementary Evening Schools,	.....	10.00	10.00	10.00	.....	10.00	.....
Evening High Schools,	.....	924.00	924.00	924.00	.....	924.00	.....
Evening School of Trades,	468.00	2,137.25	2,605.25	2,605.25	.....	2,605.25	.....
Evening School, Vocational,	20.50	144.00	164.50	164.50	.....	164.50	.....
Graded School, Day,	14.00	5,551.27	5,565.27	3,940.02	236.25	4,176.27	1,389.00
High School of Commerce,	3,201.50	7,286.50	10,488.00	8,819.75	683.50	9,503.25	984.75
Technical High School,	3,629.50	10,207.50	13,837.00	11,956.00	654.75	12,610.75	1,226.25
Vocational School,	590.00	3,404.00	3,994.00	3,109.50	501.00	3,610.50	383.50
Miscellaneous Sales:							
Assessors,	.....	1.01	1.01	1.01	.....	1.01	.....
Charities Department, Almshouse Products,	.....	1,367.25	1,367.25	1,367.25	.....	1,367.25	.....
Charities Department, Wood,	51.75	1,955.59	2,007.34	1,971.53	21.31	1,992.84	14.50
City Property, Heating Plant,	.....	.70	.70	.70	.....	.70	.....
City Property, Municipal Group,	.....	22.20	22.20	17.20	.....	17.20	5.00
City Property, Schools,	5.00	90.14	95.14	95.14	.....	95.14	.....
Fire Department,	.....	2,487.18	2,487.18	2,487.18	.....	2,487.18	.....
Garbage,	.....	2,481.28	2,481.28	2,019.93	.....	2,019.93	461.35
Municipal Market,	.....	858.94	858.94	858.94	.....	858.94	.....
Police Department,	.....	850.00	850.00	850.00	.....	850.00	.....
Police Department, Uniform Cloth,	.....	467.73	467.73	422.52	45.21	467.73	.....
Public Parks,	.....	292.45	292.45	292.45	.....	292.45	.....
School Department,	400.87	715.42	1,116.29	1,109.79	5.75	1,115.54	.75

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REVENUES AND ACCOUNTS RECEIVABLE.—Continued.
(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1916	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1917
GENERAL FUND.							
School Department—Vocational School,	.....	$267.58	$267.58	$242.28	$25.30	$267.58	.....
Streets and Engineering, Department of,	$265.00	7,283.18	7,548.18	7,015.42	13.09	7,028.51	$519.67
Recovered Expenditures:							
Charities Department,	11,067.49	26,640.67	37,708.16	32,395.49	361.48	32,756.97	4,951.19
City Property—Schools,	.....	645.18	645.18	545.18	.....	545.18	100.00
Fire,	9.00	.....	9.00	.....	.....	.....	9.00
Health,	12.00	41.50	53.50	30.50	.....	30.50	23.00
Law,	.....	9.00	9.00	9.00	.....	9.00	.....
Schools,	.....	15.00	15.00	15.00	.....	15.00	.....
Streets and Engineering, Bridges,	91.46	8,029.38	8,120.84	7,392.95	613.68	8,006.63	114.21
Forestry,	69.67	327.38	397.05	228.60	20.93	249.53	147.52
Highways,	5,708.93	17,823.17	23,532.10	17,688.42	1,026.74	18,715.16	4,816.94
Refuse Disposal,	.....	478.26	478.26	.....	60.11	60.11	418.15
Repair Shops,	27.59	212.22	239.81	97.52	97.44	194.96	44.85
Sewers,	385.12	1,185.90	1,571.02	1,141.84	5.82	1,147.66	423.36
Sidewalks and Curbing,	620.53	5,286.16	5,906.69	2,983.86	1,370.35	4,354.21	1,552.48
Street Cleaning,	.....	251.99	251.99	100.10	151.89	251.99	.....
Street Oiling,	883.00	606.19	1,489.19	1,189.60	67.77	1,257.37	231.82
Street Sprinkling,	.....	2,530.40	2,530.40	.....	.....	.....	2,530.40
Special Assessments:							
Betterments,	10,142.54	21,648.53	31,791.07	21,504.67	242.65	21,747.32	10,043.75
Sidewalks and Curbing,	10,354.59	24,161.15	34,515.74	25,000.09	804.40	25,804.49	8,711.25
Street Watering—1916,	8,422.43	3.54	8,425.97	8,421.32	4.65	8,425.97	.....
Street Watering—1917,	.....	37,097.51	37,097.51	28,096.97	274.57	28,371.54	8,725.97
Taxes—1915,	777.09	.....	777.09	437.65	339.44	777.09	.....
Taxes—1916,	759,072.54	17,179.85	776,252.39	765,943.98	9,389.29	775,333.27	919.12
Taxes—1917,	.....	3,605,685.46	3,605,685.46	2,726,873.72	20,202.55	2,747,076.27	858,609.19
Taxes—Paid After Abatement,	.....	102.67	102.67	102.67	.....	102.67	.....
	$840,860.38	$3,956,512.14	$4,797,372.52	$3,815,722.72	$45,651.74	$3,861,374.46	$935,998.06
WATER FUND.							
Water Department:							
Water Rates,	$50,459.95	$446,738.60	$497,198.55	$443,262.17	$929.91	$444,192.08	$53,006.47
Miscellaneous Sales,	13,409.90	58,087.81	71,497.71	56,305.59	670.21	56,975.80	14,521.91
	$63,869.85	$504,826.41	$568,696.26	$499,567.76	$1,600.12	$501,167.88	$67,528.38
CAPITAL FUND.							
Hillman Street Extension,	$9,828.88	.....	$9,828.88	$9,828.88	.....	$9,828.88	.....
Total—City Collector,	$914,559.11	$4,461,338.55	$5,375,897.66	$4,325,119.36	$47,251.86	$4,372,371.22	$1,003,526.44

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REVENUES AND ACCOUNTS RECEIVABLE Concluded.
(Schedule A)

CITY TREASURER IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1916	Committed during the year	Total	Payments to City Treasurer	Abatements, etc	Total	Uncollected Nov. 30, 1917
GENERAL FUND.							
Miscellaneous Sales:							
Building Department,		$16.13	$16.13				$16.13
Fire Department,		.20	.20				.20
Streets and Engineering, Department of,		70.00	70.00				70.00
Recovered Expenditures:							
Streets and Engineering, Department of,		9,160.07	9,160.07				9,160.07
Taxes:							
Corporation,		30,995.35	30,995.35				30,995.35
Total City Treasurer,		$40,241.75	$40,241.75				$40,241.75
Total Revenues Receivable,							$1,044,768.19

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PROPERTY.

(Schedule B.)

CAPITAL FUND.

ASSESSORS.			
Equipment.			
Office,			$744 05*
BUILDING COMMISSIONER.			
Equipment.			
Office,		$80.43	
Automobile,		804.60	
			885.03*
CHARITIES.			
Land.			
Almshouse Farm,		$75,704.39	
Buildings.			
Almshouse,	$27,256.50		
Wayfarers' Lodge,	21,695.81		
		48,952.31	
Equipment.			
Operating,	$1,613.46		
Furniture and Fixtures,	12.00		
Miscellaneous,	517.20		
		2,142.66	
			126,799.36
CITY AUDITOR.			
Equipment.			
Operating,			1,016.63
CITY COLLECTOR.			
Equipment.			
Office,			35.80*
CITY PROPERTY COMMITTEE.			
Equipment.			
Office,			81.50*
CITY TREASURER.			
Equipment.			
Office,			20.00*
FIRE DEPARTMENT.			
Land.			
Armory Street Station,	$2,000.00		
Chestnut Street Station,	22,500.00		
Margaret Street Station,	2,600.00		
Mill Street Station,	8,000.00		
Mill River Lane Station,	500.00		
North Street Station,	14,000.00		
North Main Street Station,	30,800.00		
Forward,	$80,400.00		$129,532 37

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Forward,	$80,400.00		$129,562.37
Oak Street, L. O., Station,	2,000.00		
Oakland Street Station,	3,500.00		
Pine Street Station,	4,000.00		
Plainfield Street Station,	2,000.00		
Walnut Street Station,	7,100.00		
Winchester Park Station,	7,000.00		
		$106,000.00	
Buildings.			
Armory Street Station,	$16,000.00		
Boston Road Station,	200.00		
Chestnut Street Station,	14,500.00		
Court Street Fire Headquarters,	101,620.00		
Margaret Street Station,	22,500.00		
Mill Street Station,	16,500.00		
Mill River Lane Station,	2,000.00		
North and Patton Street Station,	58,000.00		
North Main Street Station,	20,000.00		
Oak Street, L. O., Station,	35,859.26		
Oakland Street Station,	12,140.11		
Pine Street Station,	35,000.00		
Plainfield Street Station,	10,500.00		
Walnut Street Station,	32,500.00		
Winchester Park Station,	50,000.00		
		427,319.37	
Equipment.			
Operating.			
Fire Alarm System,	$121,963.00		
Fire Fighting,	263,785.50		
Office,	261.86		
Furniture and Furnishings,	289.90		
Miscellaneous,	355.66		
		386,655.92	
			919,975.29
Health Department.			
Buildings.			
Hospital,		$209.68	
Equipment.			
Operating.			
Office,	$168.99		
Furniture, Fixtures and Miscellaneous,	2,134.60		
		2,303.59	
			2,513.27*
Law Department.			
Equipment.			
Operating.			
Office,		$119.74	
Library,		522.13	
			641.87*
Mayor's Department.			
Equipment.			
Automobile,			2,619.81*
Forward,			$1,055,332.61

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Forward,			$1,055,332.61
Militia Rifle Range.			
Land.			
Robbins Road Rifle Range,		$1,000.00	
Equipment.			
Miscellaneous,		7.00	
			1,007.00*
Miscellaneous.			
Land.			
Police and Fire Headquarters and Municipal Heating Plant,		$189,400.00	
Land for Municipal Purposes,		12,767.96	
			202,167.96
Municipal Group.			
Land.			
Municipal Group, Court and Pynchon Streets,		$1,075,077.44	
Buildings.			
Municipal Group.			
Auditorium,	$390,500.00		
Tower,	142,200.00		
Court,	31,500.00		
Landscape Gardening,	9,600.00		
Administration Building,	548,970.70		
		1,122,770.70	
Equipment.			
Operating.			
Electrical Fixtures, Auditorium,	$27,000.00		
Furniture and Fixtures, Auditorium,	43,200.00		
Heating, Lighting, Plumbing, etc., Auditorium,	62,800.00		
Electrical Fixtures, Tower,	5,500.00		
Miscellaneous, Tower,	32,200.00		
Electrical Fixtures, Court,	16,400.00		
Miscellaneous, Court,	2,200.00		
Electrical Fixtures, Administration Building,	20,300.00		
Miscellaneous, Administration Building,	80,867.97		
Furniture and Fixtures, Administration Building,	93,768.88		
		384,236.85	
			2,582,084.99
Municipal Heating Plant.			
Land, Power Station and Garage Building,		$46,670.00	
Building, Heating Plant,		31,000.00	
Equipment, Miscellaneous,		47.70	
			77,717.70
Police Department.			
Land.			
Police Station, Indian Orchard,		$300.00	
Forward,		$300.00	$3,918,310.26

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Forward,		$300.00	$3,918,310.26
Buildings.			
Police Headquarters,	$115,600.00		
Police Station, Indian Orchard,	3,000.00		
		118,600.00	
Equipment.			
Property Improvement,	$692.32		
Furniture and Furnishings,	350.60		
Miscellaneous,	396.25		
		1,439.17	
			120,339.17
PUBLIC PARKS.			
Land.			
Alvord Circle,	$1,000.00		
Armory Street Reservoir Park,	9,390.33		
Armory Street Triangle,	400.00		
Belmont Triangle,	600.00		
Belmont Avenue,	2,000.00		
Benton Lawn,	18,000.00		
Calhoun Square,	35,000.00		
Carew Triangle,	12,100.63		
Chapin Terrace,	3,000.00		
Clarendon Fountain,	864.22		
Concord Terrace,	1,000.00		
Cottage Hill Grove,	12,000.00		
Court Square Extension,	1,400,400.00		
Crescent Terrace,	2,000.00		
Dartmouth Fountain,	1,127.71		
Dartmouth Terrace,	2,045.24		
Dorchester Rest,	1,054.68		
Emerson Wight Playground,	40,000.00		
Emily Bill Playground,	40,000.00		
Florentine Gardens,	2,000.00		
Forest Park,	1,435,500.00		
Gurdon Bill Estate,	30,462.42		
Garfield Triangle,	1,300.00		
Gerrish Park,	8,000.00		
Grenada Terrace,	2,000.00		
Gunn Square,	5,000.00		
Kenwood Terrace,	2,000.00		
Kibbe Fountain,	1,200.00		
Lafayette Rest,	1,000.00		
Liberty Street Triangle,	3,000.00		
Magnolia Terrace,	5,000.00		
Maple Street Triangle,	500.00		
Maplewood Terrace,	5,000.00		
Marengo Park,	4,000.00		
Massachusetts Terrace,	1,500.00		
McKnight Glen,	5,000.00		
McKnight Triangle,	3,000.00		
Merrick Terrace,	100,000.00		
Mill Street Fountain,	800.00		
Mill River Rest,	1,000.00		
Forward,	$3,199,245.23		$4,038,649 43

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Forward,	$3,199,245.23		$4,038,649.43
Oak Grove Park,	1,000.00		
Sargeant's Rest,	15,000.00		
Smith Triangle,	5,000.00		
Springfield Street Triangle,	1,000.00		
Stearns Square,	200,000.00		
Sumner Terrace,	7,000.00		
Tapley Playground,	7,000.00		
The Levee,	16,300.00		
Trinity Terrace,	2,500.00		
Thompson Triangle,	7,000.00		
Van Horn Reservoir Park,	31,177.45		
Watershops Triangle,	1,000.00		
Westford Circle,	2,000.00		
West Street Playground,	15,000.00		
West Street Triangle,	500.00		
Winchester Square,	25,000.00		
		$3,535,722.68	
Buildings.			
Emerson Wight Playground,	$950.00		
Emily Bill Playground,	1,200.00		
Forest Park.			
Greenhouses,	4,000.00		
Menagerie,	20,000.00		
Middle Pavilion,	4,500.00		
Pheasantry, etc.,	1,500.00		
Restaurant,	4,000.00		
Sheds,	3,500.00		
Shelters,	1,000.00		
Shops,	3,500.00		
Stables,	12,500.00		
Sumner Avenue Pavilion,	3,500.00		
Myrtle Street Playgrounds,	350.00		
Van Horn,	4,000.00		
West Street Playground,	250.00		
Bath House, Watershops Pond,	500.00		
Bath Houses, Loon Pond,	300.00		
		65,550 00	
Equipment.			
Operating.			
Automobile,	$6,102.00		
Miscellaneous,	4,491.32		
		10,593.32	
			3,611,866.00
PUBLIC SANITARY.			
Building,			24,000.00
REGISTRARS OF VOTERS.			
Equipment.			
Operating.			
Miscellaneous,			835.89*
Forward,			$7,675,351.32

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Forward,			$7,675,351.32
SCHOOLS.			
Land.			
Acushnet Avenue,	$16,000.00		
Alden Street,	3,800.00		
Armory Street,	8,500.00		
Barrows,	18,700.00		
Boston Road,	1,500.00		
Brightwood,	6,500.00		
Buckingham,	45,000.00		
Carew Street,	18,000.00		
Carlisle,	3,000.00		
Central High,	172,800.00		
Central Street,	20,000.00		
Charles Street,	4,000.00		
Chestnut Street,	41,000.00		
Dry Bridge,	1,000.00		
Eastern Avenue,	5,400.00		
East Union,	5,000.00		
Emery Street Shop and Storehouse,	7,000.00		
Five Mile Pond,	500.00		
Forest Park,	30,000.00		
Glenwood,	2,500.00		
High School of Commerce,	174,200.00		
Homer Street,	12,000.00		
Hooker,	178,100.00		
Howard Street,	38,600.00		
Grammar, Indian Orchard,	6,500.00		
Primary, Indian Orchard,	8,000.00		
Jefferson Avenue,	7,500.00		
Kensington Avenue,	10,500.00		
Lincoln,	24,000.00		
School Street,	35,500.00		
Sixteen Acres,	500.00		
State Street,	69,000.00		
Strickland,	5,000.00		
Sumner Avenue,	49,000.00		
Tapley,	22,000.00		
Technical High,	116,700.50		
Vernon Street Office Building,	42,900.00		
Vocational,	79,800.00		
Wachogue,	200.00		
White Street,	14,000.00		
William Street,	14,000.00		
Worthington Street,	12,000.00		
		$1,325,200.50	
Buildings.			
Acushnet Avenue,	$46,188.94		
Alden Street,	14,509.63		
Armory Street,	145,758.47		
Barrows,	44,842.44		
Boston Road,	12,229.02		
Brightwood,	146,075.61		
Forward,	$409,604.11	$1,325,200.50	$7,675,351.32

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Forward,	$409,604.11	$1,325,200.50	$7,675,351.32
Buckingham,	165,915.22		
Carew Street,	46,231.99		
Carlisle,	200.00		
Central High,	350,855.51		
Central Street,	77,222.05		
374 Central Street,	1,112.59		
Charles Street,	14,390.44		
Chestnut Street,	267,298.69		
Dry Bridge,	3,096.33		
Eastern Avenue,	30,461.42		
East Union,	24,583.81		
Emery Street Shop and Storehouse,	47,513.90		
Five Mile Pond,	2,000.00		
Forest Park,	94,435.44		
Glenwood,	16,548.45		
High School of Commerce,	736,748.24		
Homer Street,	37,210.11		
Hooker,	180,382.34		
Howard Street,	196,797.01		
Indian Orchard Grammar,	186,104.97		
Indian Orchard Primary,	12,678.66		
Jefferson Avenue,	41,253.05		
Kensington Avenue,	98,504.72		
Lincoln,	90,404.98		
Rushville Portable,	3,482.34		
School Street,	20,276.56		
Sixteen Acres,	2,587.17		
State Street,	78,188.78		
Strickland,	20,771.18		
Sumner Avenue,	60,100.14		
Tapley,	70,743.34		
Technical High,	280,744.85		
Vernon Street Office Building,	3,155.53		
Vocational,	43,883.83		
Wachogue,	800.00		
Washington Street (New),	10,312.49		
Washington Street Portable,	3,546.96		
White Street,	49,915.48		
William Street,	58,377.31		
Worthington Street,	66,981.84		
Armory Street Portable,	1,475.00		
Oakland Street and Forest Park Portable,	2,750.00		
		3,909,596.83	
Equipment.			
Operating.			
Furniture and Fixtures,	$172,604.17		
Miscellaneous,	17,118.19		
		189,722.36	
			5,424,519.69
SEALER OF WEIGHTS AND MEASURES.			
Equipment.			
Operating.			
Automobiles and Miscellaneous,			382.98*
Forward,			$13,100,253.99

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Forward,			$13,100,253.99
STREETS AND ENGINEERING.			
Land.			
Abbe Avenue Crossing,	$10,400.00		
67 Arch Street,	1,000.00		
Birnie Avenue Extension,	1,000.00		
Gravel Bank, Boston Road,	200.00		
Carew Street,	300.00		
Carew Street, between Baltimore and Fleetwood Streets,	600.00		
Emery Street, Dunn Lot,	20,876.00		
Fulton Street,	17,097.00		
Gravel Bank, Five Mile Pond,	4,500.00		
Gravel Bank, Island Pond,	300.00		
Locust Street,	2,070.00		
Logan Street Yard,	10,800.00		
Page Boulevard,	400.00		
Pecousic Avenue, East Side,	19,000.00		
Pecousic Avenue, West Side,	11,000.00		
Between Pecousic and South Streets,	5,000.00		
Ashes and Garbage Station, State Street,	12,000.00		
Summer Street Yard,	153,000.00		
Trap Rock Quarry, Westfield,	1,000.00		
West Street Dump,	10,000.00		
		$280,543.00	
Buildings.			
Emery Street,	$26,000.00		
Incinerator, Logan Street,	25,000.00		
South End Yard, East Side Pecousic Avenue,	6,600.00		
South End Yard, West Side Pecousic Avenue,	21,743.41		
Ashes and Garbage Station, State Street,	1,200.00		
State Street Storehouse,	2,600.00		
Summer Street Yard,	29,200.00		
Summer Street Yard, Trap Rock Bins and Trestle,	10,000.00		
Incinerator, West Street,	7,000.00		
Merg Building, State Street,	20,000.00		
		149,343.41	
Equipment.			
Operating.			
Asphalt Plant,	$7,523.20		
Automobiles,	3,838.00		
Blacksmith Shop,	1,239.51		
Carpenter Shop,	968.02		
Engineering Division,	3,200.41		
Forestry Division,	1,859.54		
Garage,	288.50		
Harness and Fittings,	1,566.85		
Highway and Road Machinery,	9,195.49		
Horses,	10,975.00		
Laboratory,	499.59		
Forward,	$41,154.16	$429,886.41	$13,100,253.99

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Forward,	$41,154.16	$429,886.41	$13,100,253.99
Machine Shop,	532.22		
Motorcycles,	400.00		
Motor Trucks,	23,851.85		
Office Furniture, etc.,	2,279.40		
Patterns,	278.00		
Sewer Division,	258.40		
Sleighs and Sleds,	1,284.87		
Stables and Yards,	2,443.08		
Steam Rollers,	20,709.40		
Street Cleaning Division,	1,923.00		
Street Lighting Division,	1,073.90		
Wagons and Carts,	7,963.20		
Water Carts,	1,409.95		
Small Tools,	8,019.34		
Steam Truck,	4,000.00		
Merg Plant,	7,023.50		
		124,604.22	
			554,490.63
Total,			$13,654,744.62

WATER FUND.

WATER DEPARTMENT.		
Ludlow Water System,	$975,584.84	
Little River Water System,	1,988,697.57	
Original Water System, Van Horn and Other,	244,224.50	
Addition to Plant,	526,871.12	
Distribution System, Water Main, Real Estate, etc.,	1,893,799.47	
Expenditures, Account Possible Supplies,	21,468.62	
		5,650,646.12
		$19,305,390.74

*Inventory Incomplete.

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PROPERTY ADDITIONS.

Year Ended November 30, 1917.

GENERAL FUND.

DEPARTMENT.		
Assessors:		
Office Equipment,		$744.05
Building Commissioner:		
Automobile Equipment,	$377.60	
Office,	4.25	
		381.85
Charities:		
Property Improvement,	$704.39	
Office Equipment,	42.53	
Furniture and Fixtures,	12.00	
Miscellaneous Equipment,	517.20	
		1,276.12
City Auditor:		
Office Equipment,		711.13
City Collector:		
Office Equipment,		35.80
City Property Committee:		
Schoolhouses—Property Improvement,	$4,259.56	
Schoolhouses—Furniture,	6,451.99	
Schoolhouses—Miscellaneous Equipment,	1,806.54	
		12,518.09
Land for Schoolhouse Purposes,		10,000.00
Fire:		
Fire Fighting Apparatus,	$295.00	
Miscellaneous Equipment,	216.16	
Property Improvement,	20,999.37	
		21,510.53
Forward,		$47,177.57

DEPARTMENT.		
Forward,		$47,177.57
Health:		
Office Equipment,	$31.90	
Furniture and Fixtures,	1,317.91	
Miscellaneous Equipment,	219.44	
		1,569.25
Law:		
Library Equipment,	$360.63	
Office Equipment,	.40	
		361.03
Militia Rifle Range:		
Miscellaneous Equipment,		7.00
Municipal Group Buildings:		
Property Improvement,	$1,482.00	
Furniture and Furnishings,	540.05	
Miscellaneous Equipment,	570.60	
		2,592.65
Municipal Heating Plant:		
Miscellaneous Equipment,		47.70
Land for Municipal Purposes,		2,767.96
Police:		
Property Improvements,	$692.32	
Furniture and Furnishings,	80.60	
		772.92
Public Parks:		
Improvement of Property,	$38,554.27	
Automobile Equipment,	6,102.00	
Miscellaneous Equipment,	440.12	
		45,096.39
Forward,		$100,892.47

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PROPERTY ADDITIONS.—Continued.

Year Ended November 30, 1917.

GENERAL FUND.

DEPARTMENT.			DEPARTMENT.		
Forward,		$100,392.47	Forward,	$602.61*	$135,846.11
Registrars of Voters:			Streets and Engineering.—Continued:		
Property Improvement,	$275.04		Laboratory,	121.72*	
Miscellaneous Equipment,	28.38		Machine Shop,	340.42	
		303.42	Motorcycles,	100.00*	
Schools:			Motor Trucks,	4,675.04	
Property Improvement,	$12,639.32		Office Furniture,	443.90	
Furniture and Fixtures,	14,882.19		Sewer Division,	145.60*	
Miscellaneous Equipment,	6,766.61		Sleighs and Sleds,	6.22	
		34,288.12	Small Tools,	4,137.65*	
Sealer of Weights and Measures:			Stables and Yards,	595.02*	
Automobile Equipment,		362.10	Steam Rollers,	1,115.60*	
			Street Cleaning Division,	344.20	
Streets and Engineering:			Street Lighting Division,	115.10*	
Asphalt Plant,	$405.20		Wagons and Carts,	268.05*	
Automobiles,	432.00*		Steam Truck,	4,000.00	
Blacksmith Shop,	55.49*		Merg Plant,	27,023.50	
Carpenter Shop,	157.88*		Water Carts,	245.85*	
Engineering Division,	480.63		Pecousic Avenue, East,	2,800.00	
Forestry Division,	374.36*		Pecousic Avenue, West,	1,743.41	
Garage,	118.50		Incinerator, Logan Street,	8,000.00	
Harness and Fixtures,	501.55		Emery Street Shop,	1,000.00	
Highway and Road Machinery,	226.24		Summer Street Buildings,	900.00*	
Horses,	1,315.00*		Arch Street, House Sold,	2,000.00*	40,029.49
Forward,	$602.61*	$135,346.11	Total Additions during Year,		$175,375.60

* Decrease in Property.

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BONDED DEBT—SUMMARY.

(Schedule C.)

	November 30		November 30, 1917	
	1917	1916	Increase	Decrease
"City" Debt within statutory limit:				
Sinking Fund Bonds,	$1,235,000.00	$1,730,000.00		$495,000 00
Deduct Investments,	821,219.21	1,235,888.62		414,669 41
	$413,780.79	$494,111.38		80,330 59
Serial Bonds,	3,303,200.00	3,239,400.00	$63,800 00	
	$3,716,980.79	$3,733,511.38		16,530 59
"City" Debt outside statutory limit:				
Serial Bonds,	1,976,000.00	2,046,000.00		70,000 00
Net "City" Debt,	$5,692,980.79	$5,779,511.38		86,530.59
Water Department Debt:				
Sinking Fund Bonds,	$275,000.00	$275,000.00		
Deduct Investments,	153,736.99	132,719.49	21,017.50	
	$121,263.01	$142,280.51		21,017 50
Serial Bonds,	1,843,000.00	1,932,000.00		89,000.00
Net "Water" Debt,	$1,964,263.01	$2,074,280.51		110,017.50
Total Net Debt,	$7,657,243.80	$7,853,791.89		196,548.09

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BONDED DEBT SERIALS

WITHIN STATUTORY LIMIT	Issued	Coupon or Reg.	Rate	Original Issue	Paid	Outstanding	Payable
School,	1898	Reg.	3½	$84,000	$79,800	$4,200	July
School,	1898	Reg.	3½	90,000	85,500	4,500	July
Sewer,	1901	Reg.	3½	25,000	16,000	9,000	September
Sewer,	1904	Reg.	3½	40,000	26,000	14,000	August
City Hall,	1907	Reg.	4	170,000	85,000	85,000	July
School, Kensington Avenue,	1908	Reg.	4	110,000	49,500	60,500	October
Sewer,	1908	Reg.	4	50,000	22,500	27,500	October
Water Street Extension,	1908	Reg.	4	40,000	36,000	4,000	October
Rifle Range,	1908	Reg.	4	10,000	9,000	1,000	October
North Street Extension,	1909	Reg.	4	200,000	160,000	40,000	October
School, Lincoln,	1909	Reg.	4	100,000	40,000	60,000	October
Fire and Police Buildings,	1910	Reg.	4	340,000	119,000	221,000	October
Locust Street Extension,	1911	Reg.	4	20,000	12,000	8,000	October
Public Buildings,	1911	Reg.	4	320,000	96,000	224,000	October
Municipal,	1913	Reg.	4¼	55,500	24,500	31,000	November
High School of Commerce,	1913	Coup.	4	500,000	100,000	400,000	November
School, Buckingham,	1913	Reg.	4¼	220,000	44,000	176,000	November
School,	1913	Reg.	4¼	39,500	8,000	31,500	November
Sewer,	1913	Reg.	4	50,000	8,000	42,000	November
High School of Commerce,	1914	Coup.	4½	150,000	24,000	126,000	November
Fulton Street Widening,	1914	Coup.	4½	400,000	60,000	340,000	November
School and Fire,	1914	Reg.	4½	250,000	39,000	211,000	November
High School of Commerce,	1915	Coup.	4	350,000	36,000	314,000	November
Dwight-Willow and Hillman Streets Extension,	1915	Reg.	4	70,000	14,000	56,000	November
School,	1916	Reg.	4	540,000	27,000	513,000	November
Land and Buildings,	1917	C. R.	4½	300,000	.....	300,000	November
				$4,524,000	$1,220,800	$3,303,200	
OUTSIDE STATUTORY LIMIT.							
River Front,	1908	Reg.	4	$20,000	$18,000	$2,000	October
Municipal Buildings,	1909	C. R.	3½	600,000	120,000	480,000	November
Municipal Buildings,	1910	C. R.	4	400,000	70,000	330,000	November
Municipal Buildings,	1912	C. R.	4	525,000	70,000	455,000	November
Dwight and Water Streets Railroad Underpasses,	1913	Coup.	4	400,000	56,000	344,000	November
Municipal Buildings,	1914	C. R.	4	200,000	15,000	185,000	November
Dwight and Water Streets Railroad Underpasses,	1915	Coup.	4	200,000	20,000	180,000	November
				$2,345,000	$369,000	$1,976,000	
WATER DEBT.							
Little River,	1907	C. R.	4	$270,000	$80,000	$190,000	January
Little River,	1908	C. R.	4	270,000	70,000	200,000	January
Little River,	1909	C. R.	3½	1,080,000	240,000	840,000	January
Little River,	1910	C. R.	3½	378,000	70,000	308,000	January
Little River,	1913	C. R.	4¼	250,000	40,000	210,000	November
Little River,	1916	C. R.	3½	100,000	5,000	95,000	November
				$2,348,000	$505,000	$1,843,000	
Total without Sinking Funds,				$9,217,000	$2,094,800	$7,122,200	

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BONDED DEBT WITH SINKING FUNDS.

	Dated	Years	Rate	Coupon or Reg.	Due	Amount	Sinking Funds
School,	Dec., 1899	20	3½	Reg.	Dec., 1919	$20,000	
School,	June, 1900	20	3	C. R.	June, 1920	125,000	
Sewer,	June, 1900	30	3	C. R.	June, 1930	142,000	$75,458.43
Schools,	Sept., 1901	20	3½	Reg.	Sept., 1921	125,000	
Schools,	Oct., 1902	20	3½	Reg.	Oct., 1922	55,000	
Public Parks,	June, 1903	20	3½	Reg.	June, 1923	125,000	95,424.81
School,	Sept., 1903	20	3½	C. R.	Sept., 1923	40,000	
School,	Jan., 1905	20	3½	Reg.	Jan., 1925	396,000	All Schools
School,	Nov., 1906	20	4	C. R.	Nov., 1926	207,000	650,335.97
						$1,235,000	$821,219.21
Water,	Oct., 1890	30	3½	Coup.	Oct., 1920	$125,000	$153,736.99
Water,	Oct., 1893	30	4	Coup.	Oct., 1923	150,000	
						$275,000	$153,736.99
Total with Sinking Funds,						$1,510,000	$974,956.20

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SINKING FUNDS, NOVEMBER 1917–1916.

Loan	Cash		Bonds Liberty Loan 4%	Bonds City of Springfield		Bonds Municipal	
	1917	1916	1917	1917	1916	1917	1916
Schools,	$85.97	$47,195.56	$44,000.00	$368,500.00	$368,500.00	$153,250.00	$100,250.00
Sewer,	158.43	4,774.93	3,000.00	32,000.00	36,000.00	16,000.00	16,000.00
Public Parks,	724.81	12,843.15	5,000.00	42,000.00	39,000.00	21,000.00	9,000.00
	$969.21	$64,813.64	$52,000.00	$442,500.00	$443,500.00	$190,250.00	$125,250.00
Water,	736.99	4,719.49	8,000.00	75,000.00	59,000.00	44,000.00	43,000.00
	$1,706.20	$69,533.13	$60,000.00	$517,500.00	$502,500.00	$234,250.00	$168,250.00

	Bonds Railroad		Bonds Street Railway		Totals		Increase
	1917	1916	1917	1916	1917	1916	1917
Schools,	$82,000	$72,000	$2,500.00	$2,500.00	$650,335.97	$590,445.56	$59,890.41
Sewer,	19,000	8,000	5,300.00	5,300.00	75,458.43	70,074.93	5,383.50
Public Parks,	19,000	19,000	7,700.00	8,700.00	95,424.81	88,543.15	6,881.66
	$120,000	$99,000	$15,500.00	$16,500.00	$821,219.21	$749,063.64	$72,155.57
Water,	26,000	26,000	.....	.....	153,736.99	132,719.49	21,017.50
	$146,000	$125,000	$15,500.00	$16,500.00	$974,956.20	$881,783.13	$93,173.07
Memo: Paid during 1917							
School, 1897, January,	$370,000.00						
Street, School and Sewer, 1907, November,	125,000.00						
	$495,000.00						

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Due	BONDED DEBT MATURITIES. "City" Serial Within Limit	"City" Serial Outside Limit	"City" with Sinking Funds	"Water" with Sinking Funds	"Water" Serial	Totals With Sinking Funds	Totals Without Sinking Funds
1918	$247,700	$69,000			$89,000		$405,700
1919	232,000	67,000	$20,000		89,000	$20,000	388,000
1920	213,000	67,000	125,000	$125,000	89,000	250,000	369,000
1921	212,000	67,000	125,000		89,000	125,000	368,000
1922	211,000	67,000	55,000		89,000	55,000	367,000
1923	210,000	67,000	165,000	150,000	89,000	315,000	366,000
1924	206,000	66,000			89,000		361,000
1925	201,000	66,000	396,000		89,000	396,000	356,000
1926	194,000	66,000	207,000		89,000	207,000	349,000
1927	192,000	66,000			89,000		347,000
1928	184,000	66,000			89,000		339,000
1929	176,000	66,000			89,000		331,000
1930	171,000	66,000	142,000		89,000	142,000	326,000
1931	154,000	66,000			89,000		309,000
1932	138,000	66,000			89,000		293,000
1933	137,500	66,000			89,000		292,500
1934	100,000	66,000			89,000		255,000
1935	61,000	66,000			89,000		216,000
1936	44,000	56,000			89,000		189,000
1937	17,000	56,000			74,000		147,000
1938	2,000	56,000			64,000		122,000
1939		56,000			14,000		70,000
1940		56,000					56,000
1941		56,000					56,000
1942		56,000					56,000
1943		56,000					56,000
1944		43,000					43,000
1945		43,000					43,000
1946		43,000					43,000
1947		43,000					43,000
1948		43,000					43,000
1949		43,000					43,000
1950		28,000					28,000
1951		18,000					18,000
1952		18,000					18,000
1953		5,000					5,000
1954		5,000					5,000
Outstanding	$3,303,200	$1,976,000	$1,235,000	$275,000	$1,843,000	$1,510,000	$7,122,200
Paid	1,220,800	369,000			505,000		2,094,800
Original Issue	$4,524,000	$2,345,000	$1,235,000	$275,000	$2,348,000	$1,510,000	$9,217,000

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AUTHORIZED EXPENDITURES NOT FINANCED.

November 30, 1917.

(Schedule D.)

Water Street Widening,.....	$35,677.00
Main Street Widening,.....	115.00
	$35,792.00

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SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1917.

GENERAL FUND.

(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Assessors,	$23,122.80	$25,072.80	$24,721.62		$351.18
Building Commissioner,	22,119.82	22,119.82	20,723.14		1,396.68
Celebrations,	2,300.00	2,300.00	2,300.00		
Charities,	100,565.84	103,470.02	101,350.34		2,119.68
City Auditor,	9,830.33	9,830.33	9,824.75		5.58
City Clerk,	11,306.67	11,306.67	10,759.84		546.83
City Collector,	18,513.26	18,663.26	18,658.07		5.19
City Council,	1,970.00	1,970.00	1,242.60		727.40
City Planning Commission,	340.00	340.00	77.57		262.43
City Property Committee—Schools,	202,431.37	225,670.13	221,678.21	$3,682.20	309.72
City Treasurer,	11,230.01	11,230.01	11,108.84		121.17
Damages—Land,	68,737.00	24,837.00	10,250.00		14,587.00
Damages—Persons and Property,	9,000.00	9,395.50	9,395.50		
Fire,	290,057.49	290,057.49	288,188.31	34.60	1,834.58
Fish Warden,	25.00	25.00	25.00		
Health,					
General Administration,	15,791.58	15,716.58	15,425.13		291.45
Dental Clinic,	3,000.00	3,000.00	1,487.09		1,512.91
Dispensary,	1,906.00	1,906.00	1,794.66		111.34
Hospitals,	39,664.67	39,597.63	39,151.76		445.87
Medical Inspection of Schools,	10,675.00	10,784.87	10,761.73		23.14
Milk Inspection and Laboratories,	7,172.00	7,204.17	7,128.23		75.94
Inventory and Stores,					
City Property Committee,	1,404.09	1,404.09	1,404.09		
Schools,	5,000.00	5,000.00	5,000.00		
Streets and Engineering,	53,612.42	59,135.58	57,279.66	1,855.92	
Law,	7,378.00	7,392.85	7,392.85		
License Commissioners,	475.00	486.85	486.85		
Mayor,	8,306.50	8,306.50	8,302.25		4.25
Militia Rifle Range,	928.00	928.00	567.74		360.26
Municipal Debt,	652,482.75	652,482.75	648,292.13		4,190.62
Municipal Group Buildings,	42,815.56	45,128.99	45,128.99		

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SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1917.

GENERAL FUND—Continued.

(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Municipal Heating Plant,	$16,933.96	$18,283.96	$17,304.62	$805.00	$174.34
Municipal Organ,	2,100.00	2,100.00	419.43		1,680.57
Police,	303,768.61	303,768.61	296,656.82		7,111.79
Printing Committee,	3,821.67	3,821.67	3,730.33		91.34
Public Library,	75,934.58	78,934.58	78,934.58		
Public Parks,	145,097.97	151,597.97	132,366.34		19,231.63
Public Works,	2,476.50	2,476.50	1,969.35		507.15
Refunds,	55,000.00	55,000.00	43,679.11		11,320.89
Registrars of Voters,	19,061.67	19,061.67	17,674.79		1,386.88
Reserve for Contingencies,	125,000.00	170,000.00	135,574.50		34,425.50
Schools,	891,318.30	910,178.67	910,117.40		61.27
Sinking Fund Commissioners,	435.00	435.00	431.00		4.00
Smoke Inspector,	462.78	462.78	321.96		140.82
Soldiers' and Sailors' Benefits,	21,140.00	21,140.00	20,568.12		571.88
Soldiers' and Sailors' Graves, Care of,	850.00	850.00	815.00		35.00
Streets and Engineering,	1,063,506.40	1,089,890.41	1,066,050.66	23,839.75	
Tax Exemptions, Soldiers' and Sailors',	2,302.70	2,302.70	2,070.35		232.35
Weights and Measures, Sealer of,	3,482.34	3,816.15	3,816.15		
Wires, Inspector of,	2,912.24	2,912.24	1,935.59		976.65
Workmen's Compensation,	5,900.00	5,900.00	2,772.37		3,127.63
Special Accounts:					
Citizens' Protection Fund,		720.03	720.03		
Fire Prevention—Schoolhouses,		507.79			507.79
Land for Municipal Purposes,		12,767.96	12,767.96		
Mayor's Messages Committee,		450.00	327.64		122.36
Military Registration,		101.62	101.62		
Military Relief Commission,		8,200.00	8,200.00		
Municipal Market Committee,		4,100.00	3,966.40		133.60
Municipal Transportation Commission,		1,556.06			1,556.06
Oakland Street Fire Station, Remodeling,		1,140.11	1,140.11		
Ordinance Codification,		1,000.00			1,000.00

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SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1917.

GENERAL FUND—Continued.

(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Credits Available for Re-Appropriation:					
Charities,		$1,346.44			$1,346.44
City Clerk,		31.00			31.00
City Property Committee—Schools,		1.23			1.23
Fire,		19.25			19.25
Health,		5.00			5.00
Municipal Group Buildings,		32.00			32.00
Municipal Heating Plant,		3,157.50			3,157.50
Police,		108.64			108.64
Public Parks,		329.67			329.67
Streets and Engineering,		741.62			741.62
	$4,363,665.88	$4,494,011.72	$4,344,339.18	$30,217.47	$119,455.07
Special Accounts (Carried Forward):					
Chestnut St. School, Addition and Alterations,		$17,041.50	$12,673.88	$1,508.80	$2,858.82
Gerrish Park,		586.01			586.01
Indian Orchard Fire Station, Remodeling,		27,000.00	19,859.26	5,304.00	1,836.74
Public Safety, Committee on,		6,279.97	3,965.47	2,000.00	314.50
Van Horn Park,		1,272.55			1,272.55
		$52,180.03	$36,498.61	$8,812.80	$6,868.62
	$4,363,665.88	$4,546,191.75	$4,380,837.79	$39,030.27	$126,323.69

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SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1917.

CAPITAL FUND.
(Schedule E.)

Department	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Boston Road School Building,	$5,500.00	$4,817.66	$651 00	$31.34
Brightwood School Building Addition,	113,000.00	85,143.14	16,796.43	11,060.43
Dwight Street Underpass,	27,142.55			27,142.55
Dwight & Willow Streets Extension,	1,036.87			1,036.87
Emery Street Shop and Storehouse,	24,000.00	23,988.90		11.10
Fulton Street Widening,	21,381.58	117.85		21,263.73
High School of Commerce,	265.24	265.24		
Hooker School Building,	251,643.55	99,997.98	132,264.39	19,381.18
Howard Street School Addition,	97,248.56	96,545.49	463.50	239.57
Land for Schoolhouse Purposes, Boston Road,	4,000.00			4,000.00
Main Street Widening,	115.00	115.00		
Municipal Group,	1,500.00		1,500.00	
Municipal Group, Additional Land,	68.00	68.00		
Technical High School, Additional Land,	78,080.99	18,707.82		59,373.17
Washington Street School Building,	135,000.00	10,312.49	105,554.55	19,132.96
Water Street Underpass,	69,001.40	20,254.09		48,747.31
Water Street Widening,	35,662.00	31,581.68		4,080.32
Wayfarers' Lodge,	24,377.56	21,695.81	1,342.31	1,339.44
Worthington Street School Building,	9,803.37	9,803.37		
	$898,826.67	$423,414.52	$258,572.18	$216,839.97

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APPROPRIATION CHARGES

FOR THE

FISCAL YEAR ENDED NOVEMBER 30, 1917.

GENERAL FUND.

Code.				
GS	ASSESSORS:			
GS 00	Personal Services,		$19,942.68	
GS 10	Services other than Personal,		3,710.15	
11	Transportation of Persons,	$47.46		
13	Support of Persons,	66.35		
15	Communication Service,	384.42		
16	Printing, Engraving, etc.,	3,104.44		
17	Advertising and Publications,	54.36		
19	Miscellaneous Services,	53.12		
GS 20	Fixed Charges and Contributions,		25.00	
29	Special and Miscellaneous Fixed Charges,	25.00		
GS 30	Supplies,		216.71	
31	Office Supplies,	216.71		
GS 50	Equipment,		827.08	
54	Furniture and Furnishings,	827.08		
				$24,721.62
PB	BUILDING DEPARTMENT:			
PB 00	Personal Services,		$18,217.35	
PB 10	Services other than Personal,		1,229.29	
11	Transportation of Persons,	188.98		
12	Transportation of Things,	150.00		
13	Support of Persons,	36.70		
14	Care of Animals and Vehicles,	501.56		
15	Communication Service,	68.00		
16	Printing, Engraving, etc.,	261.05		
19	Miscellaneous Services,	23.00		
PB 20	Fixed Charges and Contributions,		80.00	
23	Taxes and Fees Paid by the City,	80.00		
PB 30	Supplies,		695.81	
31	Office Supplies,	56.86		
32	Fuel,	402.33		
33	Mechanics', Engineers', etc., Supplies,	236.62		
PB 40	Materials,		3.20	
44	Lumber and Wood Products,	3.20		
PB 50	Equipment,		497.49	
52	Production, Construction and Conveying Equipment,	391.14		
54	Furniture and Furnishings,	106.35		
				20,723.14
	Forward,			$45,444.76

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	Forward,			**$45,444.76**
Code.				
OS	**CELEBRATIONS:**			
OS 20	**Fixed Charges and Contributions,**		**$2,300.00**	
25	**Contributions, Persons and Institutions,**	**$2,300.00**		
				2,300.00
CC	**CHARITIES:**			
CC 00	**Personal Services,**		**$23,881.97**	
1	**Salaries,**	**23,846.47**		
9	**Fees for Personal Service,**	**35.50**		
CC 10	**Services other than Personal,**		**3,071.37**	
11	**Transporation of Persons,**	**129.93**		
12	**Transportation of Things,**	**38.06**		
13	**Support of Persons,**	**18.96**		
14	**Care of Animals and Vehicles,**	**407.25**		
15	**Communication Service,**	**209.13**		
16	**Printing, Engraving, etc.,**	**197.79**		
17	**Advertising and Publications,**	**8.38**		
18	**Light, Heat, Power and Electricity,**	**138.75**		
19	**Miscellaneous Services,**	**1,928.12**		
CC 20	**Fixed Charges and Contributions,**		**44,967.74**	
22	**Insurance,**	**79.00**		
25	**Contributions, Persons and Institutions,**	**43,688.74**		
29	**Special and Miscellaneous Fixed Charges,**	**1,200.00**		
CC 30	**Supplies,**		**27,499.18**	
31	**Office Supplies,**	**99.69**		
32	**Fuel,**	**9,223.26**		
33	**Mechanics', Engineers', Supplies,**	**400.53**		
34	**Cleaning and Toilet Supplies,**	**1,152.28**		
35	**Wearing Apparel, Sewing Supplies,**	**766.85**		
36	**Supplies for Animals,**	**1,470.64**		
37	**Provisions for Persons,**	**12,139.10**		
38	**Medical, Surgical, etc., Supplies,**	**1,958.34**		
39	**Miscellaneous Supplies,**	**288.49**		
CC 40	**Material,**		**618.98**	
42	**Metals and Metal Products,**	**129.90**		
43	**Non-Metallic Mineral Products,**	**54.25**		
44	**Lumber and Wood Products,**	**205.70**		
45	**Rope, Hemp, and Fiber Products,**	**19.55**		
46	**Paints—Painters' Supplies,**	**196.12**		
49	**Miscellaneous Materials,**	**13.46**		
CC 50	**Equipment,**		**1,311.10**	
51	**Light, Heat, Power, Equipment,**	**25.25**		
52	**Production, Construction and Conveying Equipment,**	**155.90**		
53	**Live Stock,**	**385.00**		
54	**Furniture and Furnishings,**	**679.95**		
55	**Property, Life Preserving Equipment,**	**65.00**		
				101,350.34
	Forward,			**$149,095.10**

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	For ward,			**$149,095.10**
Code.				
GA	CITY AUDITOR:			
GA 00	Personal Services,		$8,730.75	
GA 10	Services other than Personal,		349.91	
11	Transportation of Persons,	$9.60		
12	Transportation of Things,	.27		
13	Support of Persons,	5.55		
15	Communication Service,	37.00		
16	Printing, Engraving, etc.,	279.05		
19	Miscellaneous Services,	18.44		
GA 30	Supplies,		209.04	
31	Office Supplies,	209.04		
GA 40	Material,		.25	
42	Metals and Metal Products,	.25		
GA 50	Equipment,		534.80	
54	Furniture and Furnishings,	534.80		
				9,824.75
GK	CITY CLERK:			
GK 00	Personal Services,		$8,166.64	
GK 10	Services other than Personal,		2,350.18	
12	Transportation of Things,	.61		
15	Communication Service,	182.62		
16	Printing, Engraving, etc.,	319.80		
17	Advertising and Publications,	7.50		
19	Miscellaneous Services,	1,839.65		
GK 20	Fixed Charges and Contributions,		36.00	
22	Insurance,	36.00		
GK 30	Supplies,		207.02	
31	Office Supplies,	142.17		
39	Miscellaneous Supplies,	64.85		
				10,759.84
GR	CITY COLLECTOR:			
GR 00	Personal Services,		$13,298.67	
1	Salaries,	12,987.42		
9	Fees for Personal Service,	311.25		
GR 10	Services other than Personal,		4,442.20	
11	Transportation of Persons,	46.61		
12	Transportation of Things,	11.92		
13	Support of Persons,	29.40		
15	Communication Service,	2,723.70		
16	Printing, Engraving, etc.,	527.38		
17	Advertising and Publications,	898.41		
19	Miscellaneous Services,	204.78		
GR 20	Fixed Charges and Contributions,		408.00	
21	Rents,	6.00		
22	Insurance,	352.00		
29	Special and Miscellaneous Fixed Charges,	50.00		
GR 30	Supplies,		303.30	
31	Office Supplies,	298.30		
34	Cleaning and Toilet Supplies,	5.00		
	Forward,		$18,452.17	**$169,679.69**

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Code.				
	Forward,		$18,452.17	$169,679.69
GR 50	Equipment and Parts,		205.90	
51	Heat, Light, etc., Equipment,	$30.85		
54	Furniture and Furnishings,	175.05		
				18,658.07
GC	CITY COUNCIL:			
GC 00	Personal Services,		$560.50	
1	Salaries,	500.00		
9	Fees for Personal Service,	60.50		
GC 10	Services other than Personal,		675.35	
11	Transportation of Persons,	35.00		
15	Communication Service,	67.36		
16	Printing, Engraving, etc.,	132.19		
17	Advertising and Publications,	440.45		
19	Miscellaneous Services,	.35		
GC 30	Supplies,		6.75	
31	Office Supplies,	6.75		
				1,242.60
GP	CITY PLANNING COMMISSION:			
GP 10	Services other than Personal,		$77.57	
15	Communication Service,	15.00		
16	Printing, Engraving, etc.,	58.17		
19	Miscellaneous Services,	4.40		
				77.57
EP	COMMITTEE ON CITY PROPERTY:			
EP 00	Personal Services,		$105,476.75	
EP 10	Services other than Personal,		31,546.91	
11	Transportation of Persons,	179.50		
12	Transportation of Things,	376.70		
13	Support of Persons,	14.90		
14	Care of Animals and Vehicles,	137.98		
15	Communication Service,	74.06		
16	Printing, Engraving, etc.,	80.54		
17	Advertising and Publications,	52.48		
18	Light, Heat, and Power,	13,194.86		
19	Miscellaneous Services,	17,435.89		
EP 20	Fixed Charges and Contributions,		2,775.32	
22	Insurance,	2,564.21		
23	Taxes and Fees Paid by City,	111.11		
29	Special and Miscellaneous Fixed Charges,	100.00		
EP 30	Supplies,		57,445.25	
31	Office Supplies,	91.60		
32	Fuel,	53,274.69		
33	Mechanics', Engineers', Supplies,	1,455.02		
34	Cleaning and Toilet Supplies,	2,220.84		
35	Wearing Apparel, Sewing Supplies,	18.72		
37	Provisions for Persons,	8.80		
38	Medical, Surgical, Supplies,	5.26		
39	Miscellaneous Supplies,	370.32		
	Forward,		$197,244.23	$189,657.93

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Code.				
	Forward,		$197,244.23	$189,657.93
EP 40	Materials,		9,458.28	
41	Raw Materials,	$122.28		
42	Metals and Metal Products,	1,376.40		
43	Non-Metallic Mineral Products,	686.17		
44	Lumber and Wood Products,	3,126.90		
45	Fiber Products,	8.75		
46	Paints—Painters' Supplies,	1,885.74		
47	Electrical Material,	2,252.04		
EP 50	Equipment and Parts,		10,110.55	
51	Heat, Light, etc., Equipment,	271.26		
52	Production, Construction and Conveying Equipment,	160.85		
54	Furniture and Furnishings,	8,002.29		
55	Property, etc., Equipment,	1,646.15		
56	Educational, etc., Equipment,	30.00		
EP 60	Lands and Structures,		4,865.15	
62	Buildings and Structures,	4,225.00		
64	Excavations, Surfacings, etc.,	640.15		
				221,678.21
GT	CITY TREASURER:			
GT 00	Personal Services,		$9,916.39	
GT 10	Services other than Personal,		702.37	
11	Transportation of Persons,	34.58		
12	Transportation of Things,	1.28		
13	Support of Persons,	21.05		
15	Communication Service,	167.79		
16	Printing, Engraving, etc.,	274.82		
19	Miscellaneous Services,	202.85		
GT 20	Fixed Charges and Contributions,		288.40	
22	Insurance,	260.00		
23	Taxes and Fees Paid by the City,	8.40		
29	Special and Miscellaneous Fixed Charges,	20.00		
GT 30	Supplies,		201.68	
31	Office Supplies,	174.68		
39	Miscellaneous Supplies,	27.00		
				11,108.84
OH	DAMAGES—LAND:			
OH 60	Lands, Structures and other Capital Outlay,		$10,250.00	
67	Damages, Awards and Property Charges,	10,250.00		
				10,250.00
OD	DAMAGES—PERSONS AND PROPERTY:			
OD 20	Fixed Charges and Contributions,		$9,395.50	
26	Damages to Persons and Property,	9,395.50		
				9,395.50
PF	FIRE DEPARTMENT:			
PF 00	Personal Services,		$251,815.64	
1	Salaries,	251,790.64		
9	Fees for Personal Service,	25.00		
	Forward,		$251,815.64	$442,090.48

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Code.				
	Forward,		**$251,815.64**	**$442,090.48**
PF 10	Services other than Personal,		12,984.25	
11	Transportation of Persons,	$6.00		
12	Transportation of Things,	90.94		
13	Support of Persons,	4.75		
14	Care of Animals and Vehicles,	722.81		
15	Communication Service,	779.57		
16	Printing, Engraving, etc.,	57.43		
18	Light, Heat, Power and Electricity,	3,315.19		
19	Miscellaneous Services,	8,007.56		
PF 20	Fixed Charges and Contributions,		3,051.51	
24	Pensions and Retirement Salaries,	3,051.51		
PF 30	Supplies,		14,180.98	
31	Office Supplies,	83.11		
32	Fuel,	8,852.47		
33	Mechanics', Engineers', etc., Supplies,	3,354.83		
34	Cleaning and Toilet Supplies,	885.66		
35	Wearing Apparel, Sewing Supplies,	491.20		
36	Supplies for Animals,	13.60		
37	Provisions for Persons,	118.34		
38	Medical, Surgical, etc., Supplies,	255.15		
39	Miscellaneous Supplies,	126.62		
PF 40	Materials,		683.97	
42	Metals and Metal Products,	231.62		
43	Non-Metallic Mineral Products,	6.17		
44	Lumber and Wood Products,	150.49		
45	Rope, Hemp, Fiber Products,	19.48		
46	Paints—Painters' Supplies,	275.71		
49	Miscellaneous Materials,	.50		
PF 50	Equipment and Parts,		5,471.96	
51	Heat, Light, Power, etc., Equipment,	1,368.92		
52	Production, Construction and Conveying Equipment,	2,196.32		
54	Furniture and Furnishings,	59.14		
55	Property, Life Preserving, Equipment,	1,763.77		
56	Educational, Scientific, etc., Equipment,	8.00		
59	Miscellaneous Equipment,	75.81		
				288,188.31
PD	FISH WARDEN:			
PD 00	Personal Services,		$25.00	
				25.00
PH	HEALTH DEPARTMENT:			
PHA	GENERAL ADMINISTRATION:			
PHA 00	Personal Services,		$14,257.94	
1	Salaries,	14,237.69		
9	Fees for Personal Service,	20.25		
PHA 10	Services other than Personal,		788.48	
11	Transportation of Persons,	282.02		
12	Transportation of Things,	31.11		
13	Support of Persons,	11.05		
15	Communication Service,	183.21		
	Forward,		**$15,046.42**	**$730,303.79**

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Code.				
	Forward,		$15,046.42	$730,303.79
16	Printing, Engraving, etc.,	$229.69		
19	Miscellaneous Services,	51.40		
PHA 20	Fixed Charges and Contributions,		50.00	
29	Special and Miscellaneous Fixed Charges,	50.00		
PHA 30	Supplies,		326.63	
31	Office Supplies,	74.96		
33	Mechanics', Engineers', etc., Supplies,	1.82		
38	Medical, Surgical, etc., Supplies,	249.85		
PHA 40	Materials,		2.08	
42	Metals and Metal Products,	2.08		
			$15,425.13	
PHC	DENTAL CLINIC:			
PHC 10	Services other than Personal,		$212.74	
19	Miscellaneous Services,	212.74		
PHC 30	Supplies,		103.28	
38	Medical, Surgical, etc., Supplies,	103.28		
PHC 50	Equipment and Parts,		1,171.07	
54	Furniture and Furnishings,	278.49		
57	Medical, Surgical, etc., Equipment,	892.58		
			$1,487.09	
PHD	DISPENSARY:			
PHD 00	Personal Services,		$900.00	
PHD 10	Services other than Personal,		491.34	
11	Transportation of Persons,	95.00		
15	Communication Service,	3.23		
16	Printing, Engraving, etc.,	38.30		
18	Light, Heat, Power, etc.,	4.55		
19	Miscellaneous Services,	350.26		
PHD 20	Fixed Charges and Contributions,		276.00	
21	Rents,	276.00		
PHD 30	Supplies,		126.47	
31	Office Supplies,	7.33		
34	Cleaning and Toilet Supplies,	1.30		
38	Medical, Surgical, etc., Supplies,	117.84		
PHD 50	Equipment,		.85	
51	Heat, Light, Power, Equipment,	.85		
			$1,794.66	
PHH	HOSPITALS:			
PHH 00	Personal Services,		$10,098.25	
PHH 10	Services other than Personal,		7,068.83	
11	Transportation of Persons,	588.00		
12	Transportation of Things,	57.11		
15	Communication Service,	16.95		
16	Printing, Engraving, etc.,	66.94		
18	Light, Heat, Power, Electricity,	2,947.96		
19	Miscellaneous Services,	3,391.87		
	Forward,		$17,167.08	$749,010.67

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	Forward,.....		$17,167.08	$749,010.67
Code.				
PHH 20	Fixed Charges and Contributions,.....		4,882.00	
25	Contributions to Persons, and Institutions,.....	$4,882.00		
PHH 30	Supplies,.....		16,531.24	
31	Office Supplies,.....	30.95		
32	Fuel,.....	460.56		
33	Mechanics', Engineers', etc., Supplies,.	45.85		
34	Cleaning and Toilet Supplies,.....	510.80		
35	Wearing Apparel, Sewing Supplies,...	929.77		
36	Forage and Supplies for Animals,.....	5.15		
37	Provisions for Persons,.....	12,353.99		
38	Medical, Surgical, etc., Supplies,.....	2,155.52		
39	Miscellaneous Supplies,.....	38.65		
PHH 40	Materials,.....		180.53	
42	Metals and Metal Products,.....	17.56		
46	Paints—Painters' Supplies,.....	162.97		
PHH 50	Equipment,.....		390.91	
52	Production, Construction and Conveying Equipment,.....	9.90		
54	Furniture and Furnishings,.....	381.01		
			$39,151.76	
PHI	MEDICAL INSPECTION OF SCHOOL CHILDREN:			
PHI 00	Personal Services,.....		$10,214.18	
PHI 10	Services other than Personal,.....		378.59	
11	Transportation of Persons,.....	204.00		
16	Printing, Engraving, etc.,.....	174.59		
PHI 30	Supplies,.....		164.87	
31	Office Supplies,.....	3.00		
34	Cleaning and Toilet Supplies,.....	1.35		
35	Wearing Apparel, Sewing Supplies,...	26.83		
38	Medical, Surgical, etc., Supplies,.....	125.41		
39	Miscellaneous Supplies,.....	8.28		
PHI 50	Equipment,.....		4.09	
54	Furniture and Furnishings,.....	4.09		
			$10,761.73	
PHM	MEDICAL SERVICE AND LABORATORIES:			
PHM 00	Personal Services,.....		$5,111.62	
PHM 10	Services other than Personal,.....		1,139.15	
11	Transportation of Persons,.....	714.93		
12	Transportation of Things,.....	5.20		
13	Support of Persons,.....	58.95		
15	Communication Service,.....	96.20		
16	Printing, Engraving, etc.,.....	88.03		
18	Light, Heat, Power, and Electricity,..	58.09		
19	Miscellaneous Services,.....	117.75		
	Forward,.....		$6,250.77	$798,924.16

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Code.				
	Forward,		$6,250.77	$798,924.16
PHM 20	Fixed Charges and Contributions,		600.00	
21	Rents,	$600.00		
PHM 30	Supplies,		269.17	
31	Office Supplies,	30.26		
32	Fuel,	.14		
34	Cleaning and Toilet Supplies,	10.26		
35	Wearing Apparel, Sewing Supplies,	5.25		
37	Provisions for Persons,	44.00		
38	Medical, Surgical, etc., Supplies,	176.31		
39	Miscellaneous Supplies,	2.95		
PHM 40	Materials,		1.86	
42	Metals and Metal Products,	1.60		
46	Paints—Painters' Supplies,	.26		
PHM 50	Equipment,		6.43	
52	Production, Construction and Conveying Equipment	4.93		
57	Medical, Surgical, etc., Equipment,	1.50		
			$7,128.23	
				75,748.60
EP	INVENTORY, CITY PROPERTY COMMITTEE,			1,404.09
ES	INVENTORY, SCHOOLS,			5,000.00
WS	INVENTORY, STREETS AND ENGINEERING,			53,612.42
GL	LAW:			
GL 00	Personal Services,		$6,505.95	
1	Salaries,	5,533.92		
9	Fees for Personal Service,	972.03		
GL 10	Services other than Personal,		398.32	
11	Transportation of Persons,	173.50		
12	Transportation of Things,	1.50		
13	Support of Persons,	116.35		
15	Communication Service,	78.81		
16	Printing, Engraving, etc.,	70.62		
19	Miscellaneous Service,	17.54		
GL 20	Fixed Charges and Contributions,		50.00	
29	Miscellaneous Fixed Charges,	50.00		
GL 30	Supplies,		73.95	
31	Office Supplies,	73.95		
GL 50	Equipment,		364.63	
54	Furniture and Furnishings,	364.63		
				7,392.85
GI	LICENSE COMMISSIONERS:			
GI 00	Personal Services,		$400.00	
GI 10	Services other than Personal,		86.85	
16	Printing, Engraving, etc.,	86.85		
				486.85
GM	MAYOR:			
GM 00	Personal Services,		$6,329.06	
GM 10	Services other than Personal,		1,912.01	
11	Transportation of Persons,	140.06		
	Forward,		$8,241.07	$873,948.60

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	Forward,.....		$8,241.07	$873,948.60
Code.				
13	Support of Persons,.....	$329.70		
14	Care of Animals and Vehicles,.....	1,204.22		
15	Communication Service,.....	95.21		
16	Printing, Engraving, etc.,.....	110.97		
19	Miscellaneous Services,.....	31.85		
GM 30	Supplies,.....		61.18	
31	Office Supplies,.....	61.18		
				8,302.25
PR	MILITIA RIFLE RANGE:			
PR 00	Personal Services,.....		$390.45	
PR 20	Fixed Charges and Contributions,.....		170.29	
22	Insurance,.....	30.00		
23	Taxes and Fees Paid by the City,.....	140.29		
PR 50	Equipment,.....		7.00	
54	Furniture and Furnishings,.....	7.00		
				567.74
DD	MUNICIPAL DEBT:			
DDA	Principal,.....		$306,200.00	
DDA	City Debt Serials,.....	306,200.00		
DDC	Sinking Funds,.....		44,000.00	
DI	Interest,.....		298,092.13	
DIA	City Debt,.....	268,282.75		
DIC	Temporary Loans,.....	27,844.28		
DID	Trust Funds,.....	1,965.10		
				648,292.13
GGM	MUNICIPAL GROUP BUILDINGS:			
GGM 00	Personal Services,.....		$29,662.25	
1	Salaries,.....	29,592.31		
9	Fees for Personal Service,.....	69.94		
GGM 10	Services other than Personal,.....		11,338.60	
11	Transportation of Persons,.....	1.00		
12	Transportation of Things,.....	60.45		
15	Communication Service,.....	1,225.44		
16	Printing, Engraving, etc.,.....	7.58		
18	Light, Heat, Power, and Electricity,..	4,714.53		
19	Miscellaneous Services,.....	5,329.60		
GGM 20	Fixed Charges and Contributions,.....		2.00	
23	Taxes and Fees Paid by City, ...	2.00		
GGM 30	Supplies,.....		2,738.98	
31	Office Supplies,.....	15.70		
33	Mechanics', Engineers', etc., Supplies,.	431.28		
34	Cleaning and Toilet Supplies,.....	1,842.09		
37	Provisions for Persons,.....	432.11		
39	Miscellaneous Supplies,.....	17.80		
GGM 40	Materials,.....		276.51	
42	Metals and Metal Products,.....	82.47		
43	Non-Metallic Mineral Products,.....	24.35		
44	Lumber and Wood Products,.....	120.39		
46	Paints—Painters' Supplies,.....	49.30		
	Forward,.....		$44,018.34	$1,531,110.72

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	Forward,			$44,018.34	$1,531,110.72
Code.					
GGM 50	Equipment,			1,110.65	
54	Furniture and Furnishings,	$740.65			
55	Property, Life Preserving, etc., Equipment,	370.00			
					45,128.99
GGH	MUNICIPAL HEATING PLANT:				
GGH 00	Personal Services,			$7,691.23	
GGH 10	Services other than Personal,			396.58	
12	Transportation of Things,	2.98			
15	Communication Service,	2.10			
16	Printing, Engraving, etc.,	1.92			
18	Light, Heat, Power, Electricity,	201.72			
19	Miscellaneous Services,	187.86			
GGH 30	Supplies,			8,957.78	
31	Office Supplies,	1.00			
32	Fuel,	8,550.51			
33	Mechanics', Engineers', etc., Supplies,	322.78			
34	Cleaning and Toilet Supplies,	77.99			
35	Wearing Apparel, Sewing Supplies,	1.50			
37	Provisions for Persons,	4.00			
GGH 40	Material,			168.25	
42	Metals and Metal Products,	154.54			
43	Non-Metallic Mineral Products,	8.63			
46	Paints—Painters' Supplies,	2.30			
47	Electrical Materials,	2.78			
GGH 50	Equipment,			90.78	
51	Heat, Light, Power, Equipment,	59.20			
52	Production, Construction, Conveying Equipment,	11.08			
55	Property, Life Preserving, etc.,	20.50			
					17,304.62
OO	MUNICIPAL ORGAN:				
OO 10	Services other than Personal,			$419.43	
19	Miscellaneous Services,	419.43			
					419.43
PP	POLICE DEPARTMENT:				
PP 00	Personal Services,			$253,650.69	
1	Salaries,	252,898.24			
9	Fees for Personal Service,	752.45			
PP 10	Services other than Personal,			15,213.50	
11	Transportation of Persons,	2,271.25			
12	Transportation of Things,	51.86			
13	Support of Persons,	1,972.27			
14	Care of Animals and Vehicles,	1,012.92			
15	Communication Service,	2,263.30			
16	Printing, Engraving, etc.,	1,032.75			
17	Advertising and Publications,	1.15			
18	Light, Heat, Power and Electricity,	4,057.48			
19	Miscellaneous Services,	2,550.52			
	Forward,			$268,864.19	$1,593,963.76

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Code.				
	Forward,		$268,864.19	$1,593,963.76
PP 20	Fixed Charges and Contributions,		8,895.20	
21	Rents,	$4.00		
22	Insurance,	19.06		
23	Taxes and Fees Paid by City,	83.00		
24	Pensions and Retirement Salaries,	8,179.14		
25	Contributions to Persons and Institutions,	10.00		
29	Special and Miscellaneous Fixed Charges,	600.00		
PP 30	Supplies,		11,879.64	
31	Office Supplies,	735.28		
32	Fuel,	3,183.67		
33	Mechanics', Engineers', etc., Supplies,	4,468.59		
34	Cleaning and Toilet Supplies,	838.50		
35	Apparel, Sewing Supplies,	1,870.33		
37	Provisions for Persons,	183.09		
38	Medical, Surgical, etc., Supplies,	104.91		
39	Miscellaneous Supplies,	495.27		
PP 40	Materials,		175.84	
42	Metals and Metal Products,	43.23		
43	Non-Metallic Mineral Products,	27.55		
44	Lumber and Wood Products,	9.15		
45	Rope, Hemp, Fiber Products,	8.10		
46	Paints—Painters' Supplies,	87.81		
PP 50	Equipment,		6,081.40	
51	Heat, Light, etc., Equipment,	49.80		
52	Production, Construction and Conveying Equipment,	3,229.78		
54	Furniture and Furnishings,	451.71		
55	Property, Life Preserving, etc.,	2,066.61		
59	Miscellaneous Equipment,	283.50		
PP 60	Lands, Building, and Capital Outlay,		760.55	
62	Buildings and Structures,	760.55		
				296,656.82
GY	PRINTING COMMITTEE:			
GY 00	Personal Services,		$566.64	
GY 10	Services other than Personal,		3,120.09	
12	Transportation of Things,	18.32		
16	Printing, Engraving, etc.,	2,971.56		
17	Advertising and Publications,	4.30		
19	Miscellaneous Services,	125.91		
GY 30	Supplies,		43.60	
31	Office Supplies,	43.60		
				3,730.33
EL	PUBLIC LIBRARY:			
EL 20	Fixed Charges and Contributions,			78,934.58
RP	PUBLIC PARKS:			
RP 00	Personal Services,		$86,809.89	
RP 10	Services other than Personal,		3,180.06	
11	Transportation of Persons,	20.25		
12	Transportation of Things,	35.00		
	Forward,		$89,989.95	$1,973,285.49

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	Forward,		$89,989.95	$1,973,285.49
Code.				
14	Care of Animals and Vehicles,	$143.04		
15	Communication Service,	251.34		
16	Printing, Engraving, etc.,	122.05		
18	Light, Heat, Power, and Electricity,	479.20		
19	Miscellaneous Services,	2,129.18		
RP 20	Fixed Charges and Contributions,		683.91	
21	Rents,	557.00		
22	Insurance,	39.00		
23	Taxes and Fees Paid by City,	87.91		
RP 30	Supplies,		16,801.15	
31	Office Supplies,	50.50		
32	Fuel,	4,782.14		
33	Mechanics', Engineers', etc., Supplies,	1,372.35		
34	Cleaning and Toilet Supplies,	81.02		
35	Wearing Apparel, Sewing Supplies,	182.86		
36	Forage and Supplies for Animals,	6,968.20		
37	Provisions for Persons,	383.03		
38	Medical, Surgical, Laboratory Supplies,	629.24		
39	Miscellaneous Supplies,	2,351.81		
RP 40	Materials,		7,465.13	
41	Raw Materials,	1,707.23		
42	Metals and Metal Products,	1,031.19		
43	Non-Metallic Mineral Products,	3,616.96		
44	Lumber and Wood Products,	645.29		
45	Rope, Hemp, Fiber Products,	125.40		
46	Paints—Painters' Supplies,	319.81		
49	Miscellaneous Materials,	19.25		
RP 50	Equipment,		8,871.93	
51	Heat, Light, Electrical Equipment,	130.78		
52	Production, Construction, and Conveying Equipment,	8,209.18		
53	Live Stock,	250.00		
54	Furniture and Furnishings,	49.21		
55	Property, Life Preserving, etc.,	115.15		
56	Educational, Scientific, etc.,	60.88		
57	Medical, Surgical, etc.,	1.00		
59	Miscellaneous Equipment,	55.73		
RP 60	Lands, Buildings, and Capital Outlay,		8,554.27	
61	Lands,	7,500.00		
64	Excavations, Embankment, and Surfacing,	1,038.07		
69	Other Capital Outlays,	16.20		
				132,366.34
GW	PUBLIC WORKS, BOARD OF:			
GW 00	Personal Services,		$1,785.50	
1	Salaries,	1,675.50		
9	Fees for Personal Service,	110.00		
GW 10	Services other than Personal,		79.11	
11	Transportation of Persons,	64.00		
16	Printing, Engraving, etc.,	6.88		
	Forward,		$1,864.61	$2,105,651.83

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	Forward,		$1,864.61	$2,105,651.83
Code.				
17	Advertising and Publications,	$8.23		
GW 30	Supplies,		15.64	
31	Office Supplies,	15.64		
GW 50	Equipment,		89.10	
54	Furniture and Furnishings,	89.10		
				1,969.35
OA	REFUNDS:			
OA 90	Miscellaneous Items, N. O. C.,			43,679.11
	Care at Hospital,	20.58		
	Garbage Disposal,	27.00		
	Gasoline Pump Licenses,	25.00		
	Liquor Licenses,	41,112.20		
	Schools, Tuition,	279.75		
	Sewer Fees,	2,020.19		
	Sidewalks and Curbing,	48.04		
	Street Betterment,	69.46		
	Taxes:			
	Local, $12.48			
	State, 64.41	76.89		
GV	REGISTRARS OF VOTERS:			
GV 00	Personal Services,		$12,732.44	
GV 10	Services other than Personal,		3,876.24	
11	Transportation of Persons,	1.00		
12	Transportation of Things,	705.78		
15	Communication Service,	72.11		
16	Printing, Engraving, etc.,	2,252.25		
17	Advertising and Publications,	246.82		
18	Light, Heat, Power, and Electricity,	2.17		
19	Miscellaneous Services,	596.11		
GV 20	Fixed Charges and Contributions,		923.50	
21	Rents,	923.50		
GV 30	Supplies,		138.29	
31	Office Supplies,	125.20		
39	Miscellaneous Supplies,	13.09		
GV 50	Equipment,		4.32	
51	Heat, Light, Power, etc., Equipment,	4.32		
				17,674.79
OR	RESERVE FOR CONTINGENCIES:			
	Sundry Transfers,			135,574.50
ES	SCHOOL DEPARTMENT:			
ES 00	Personal Services,		$772,798.93	
1	Salaries,	772,615.83		
9	Fees for Personal Service,	183.10		
ES 10	Services other than Personal,		17,124.67	
11	Transportation of Persons,	3,031.77		
12	Transportation of Things,	2,588.67		
13	Support of Persons,	189.62		
15	Communication Service,	2,624.10		
	Forward,		$789,923.60	$2,304,549.58

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	Forward,.....			$789,923.60	$2,304,549.58
Code.					
16	Printing, Engraving, etc.,.....	$4,707.10			
17	Advertising and Publications,.....	221.84			
19	Miscellaneous Services,.....	3,761.57			
ES 20	Fixed Charges and Contributions,.....		2,024.27		
21	Rents,.....	233.00			
25	Contributions to Persons and Institutions,.....	691.27			
29	Special and Miscellaneous Fixed Charges,.....	1,100.00			
ES 30	Supplies,.....		94,169.90		
31	Office Supplies,.....	57,393.68			
32	Fuel,.....	192.00			
33	Mechanics', Engineers', etc., Supplies,	897.39			
34	Cleaning and Toilet Supplies,.....	3,577.77			
35	Wearing Apparel, Sewing Supplies,...	1,896.89			
36	Forage and Supplies for Animals,.....	.75			
37	Provisions for Persons,.....	28,254.79			
38	Medical, Surgical, etc., Supplies,.....	1,323.37			
39	Miscellaneous Supplies,.....	633.26			
ES 40	Materials,.....		10,884.81		
41	Raw Materials,.....	54.37			
42	Metals and Metal Products,.....	3,965.29			
43	Non-Metallic Mineral Products,.....	13.89			
44	Lumber and Wood Products,.....	5,788.00			
45	Rope, Hemp, Fiber Products,.....	.58			
46	Paints—Painters' Supplies,.....	938.51			
49	Miscellaneous Materials,.....	124.17			
ES 50	Equipment,.....		18,114.82		
51	Light, Heat, Power, etc.,.....	272.64			
52	Production, Construction and Conveying Equipment,.....	2,394.66			
54	Furniture and Furnishings,.....	5,260.78			
56	Educational, Scientific, etc.,.....	4,585.18			
57	Medical, Surgical, etc., Equipment,...	68.40			
59	Miscellaneous Equipment,.....	533.21			
					910,117.40
GF	SINKING FUND COMMISSIONERS:				
GF 00	Personal Services,.....		$400.00		
GF 20	Fixed Charges and Contributions,.....		25.00		
21	Rents,.....	25.00			
GF 30	Supplies,.....		6.00		
31	Office Supplies,.....	6.00			
					431.00
PS	SMOKE INSPECTOR:				
PS 00	Personal Services,.....		$250.00		
PS 10	Services other than Personal,.....		65.96		
15	Communication Service,.....	12.07			
16	Printing, Engraving, etc.,.....	2.89			
19	Miscellaneous Services,.....	51.00			
PS 30	Supplies,.....		6.00		
31	Office Supplies,.....	6.00			
					321.96
	Forward,.....				$3,215,419.94

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Code.				
	Forward,			$3,215,419.94
SA	SOLDIERS' AND SAILORS' BENEFITS:			
SA 00	Personal Services,		$828.00	
1	Salaries,	$800.00		
9	Fees for Personal Service,	28.00		
SA 10	Services other than Personal,		665.13	
11	Transportation of Persons,	1.15		
15	Communication Service,	11.55		
16	Printing, Engraving, etc.,	7.33		
19	Miscellaneous Services,	645.10		
SA 20	Fixed Charges and Contributions,		19,071.49	
25	Contributions to Persons and Institutions,	19,071.49		
SA 30	Supplies,		3.50	
31	Office Supplies,	3.50		
				20,568.12
SC	SOLDIERS' AND SAILORS' GRAVES, CARE OF:			
SC 00	Personal Services,		$200.00	
SC 10	Services other than Personal,		615.00	
19	Miscellaneous Services,	615.00		
				815.00
WS	STREETS AND ENGINEERING:			
WS 00	Personal Services,		$594,875.05	
1	Salaries,	594,778.43		
9	Fees for Personal Service,	96.62		
WS 10	Services other than Personal,		175,174.85	
11	Transportation of Persons,	1,883.72		
12	Transportation of Things,	7,351.17		
13	Support of Persons,	404.90		
14	Care of Animals and Vehicles,	1,463.97		
15	Communication Service,	828.31		
16	Printing, Engraving, etc.,	1,470.94		
17	Advertising and Publications,	148.92		
18	Light, Heat, Power, and Electricity,	134,741.11		
19	Miscellaneous Services,	26,881.81		
WS 20	Fixed Charges and Contributions,		2,253.70	
21	Rents,	41.00		
22	Insurance,	545.52		
23	Taxes and Fees Paid by the City,	601.74		
24	Pensions and Retirement Salaries,	765.44		
29	Special and Miscellaneous Fixed Charges,	300.00		
WS 30	Supplies,		47,276.99	
31	Office Supplies,	1,252.14		
32	Fuel,	20,402.53		
33	Mechanics', Engineers', etc., Supplies,	5,263.31		
34	Cleaning and Toilet Supplies,	769.67		
35	Wearing Apparel, Sewing Supplies,	1,049.59		
36	Forage and Supplies for Animals,	17,297.04		
37	Provisions for Persons,	22.55		
38	Medical, Surgical, and Laboratory Supplies,	839.60		
	Forward,		$819,580.59	$3,236,803.06

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Forward,			$819,580.59	$3,236,803.06
Code.				
39	Miscellaneous Supplies,	$380.56		
WS 40	Materials,		199,480.93	
41	Raw Materials,	108,529.49		
42	Metal and Metal Products,	16,950.95		
43	Non-Metallic Mineral Products,	59,717.33		
44	Lumber and Wood Products,	12,284.54		
45	Rope, Hemp, Fiber Products,	312.27		
46	Paints—Painters' Supplies,	1,529.15		
49	Miscellaneous Materials,	157.20		
WS 50	Equipment,		37,814.63	
51	Heat, Light, Electrical Equipment,	20.00		
52	Production, Construction and Conveying Equipment,	36,163.62		
54	Furniture and Furnishings,	810.88		
56	Educational, Scientific, etc.,	749.13		
57	Medical, Surgical and Laboratory Equipment,	31.95		
59	Miscellaneous Equipment,	39.05		
WS 60	Lands, Buildings, and Capital Outlay,		9,174.51	
62	Buildings and Structures,	7,394.94		
63	Bridges and Viaducts,	1,779.57		
WS 215	Stores,		3,667.24	
				1,069,717.90
SE	TAX EXEMPTIONS, SOLDIERS' AND SAILORS':			
SE 20	Fixed Charges and Contributions,		$2,070.35	
23	Taxes and Fees Paid by the City,	2,070.35		
				2,070.35
PM	WEIGHTS AND MEASURES, SEALER OF:			
PM 00	Personal Services,		$2,658.34	
PM 10	Services other than Personal,		453.28	
11	Transportation of Persons,	56.50		
12	Transportation of Things,	191.30		
14	Care of Animals and Vehicles,	135.03		
15	Communication Service,	2.84		
16	Printing, Engraving, etc.,	57.51		
17	Advertising and Publications,	2.00		
19	Miscellaneous Services,	8.10		
PM 30	Supplies,		337.33	
31	Office Supplies,	17.85		
32	Fuel,	188.97		
33	Mechanics', Engineers', etc., Supplies,	91.55		
39	Miscellaneous Supplies,	38.96		
PM 50	Equipment,		367.20	
52	Production, Construction, and Conveying Equipment,	367.20		
				3,816.15
PW	WIRES, INSPECTOR OF:			
PW 00	Personal Services,		$350.00	
PW 10	Services other than Personal,		168.51	
15	Communication Service,	21.46		
Forward,			$518.51	$4,312,407.46

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	Forward,.....		$518.51	$4,312,407.46
Code.				
17	Advertising and Publications,.....	$12.80		
19	Miscellaneous Services,.....	134.25		
PW 30	Supplies,.....		11.00	
31	Office Supplies,.....	11.00		
PW 40	Materials, ...		53.56	
42	Metals and Metal Products,.....	53.56		
PW 50	Equipment,.....		1,352.52	
51	Heat, Light, Power, etc., Equipment,.	1,352.52		
				1,935.59
OW	WORKMEN'S COMPENSATION:			
OW 00	Personal Services,.....		$11.30	
9	Fees for Personal Service,.....	11.30		
OW 10	Services other than Personal,.....		200.25	
11	Transportation of Persons,.....	189.00		
15	Communication Service,.....	1.00		
16	Printing, Engraving, etc.,.....	10.25		
OW 20	Fixed Charges and Contributions,.....		2,554.65	
25	Contributions to Persons and Institutions,.....	842.73		
26	Damages to Persons and Property,...	811.92		
29	Special and Miscellaneous Fixed Charges,.....	900.00		
OW 30	Supplies,.....		6.17	
31	Office Supplies,.....	6.17		
				2,772.37
	SPECIAL ACCOUNTS:			
	Military Relief Commission,.....	8,200.00		
	Indian Orchard Fire Station,.....	19,859.26		
	Oakland Street Fire Station,.....	1,140.11		
	Citizens' Protection Fund,.....	720.03		
	Military Registration,.....	101.62		
	Committee on Mayor's Messages,....	327.64		
	Municipal Market Committee,.....	3,966.40		
	Committee on Public Safety,.....	3,965.47		
	Land for Municipal Purposes,.....	12,767.96		
	Chestnut Street School Addition,.....	12,673.88		
				63,722.37
	Total,.....			$4,380,837.79

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CAPITAL FUND.

Boston Road School Building,	$4,817.66	
Brightwood School Building Addition,	85,143.14	
Emery Street Shop and Storehouse,	23,988.90	
Fulton Street Widening,	117.85	
High School of Commerce,	265.24	
Hooker School Building,	99,997.98	
Howard Street School Addition,	96,545.49	
Main Street Widening,	115.00	
Municipal Group, Additional Land,	68.00	
Technical High School, Additional Land,	18,707.82	
Washington Street School Building,	10,312.49	
Water Street Underpass,	20,254.09	
Water Street Widening,	31,581.68	
Wayfarers' Lodge,	21,695.81	
Worthington Street School Building,	9,803.37	
		$423,414.52

SPECIAL AND TRUST FUND.

Gurdon Bill Fund,	$286.40	
Court Square Extension Fund,	87.05	
		$373.45

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GENERAL FUND SURPLUS.

For Year Ended November 30, 1917.

(Schedule F.)

Debits.		Credits.	
Appropriated in 1917 Budget,	$229,268.71	Surplus, December 1, 1916,	$660,934.78
Reserve for Abatement of Departmental Bills,	15,266.36	Unencumbered Balances of Appropriations, 1917 Budget,	119,455.07
	$244,535.07	Excess of Revenues over Estimate,	62,497.07
Surplus, November 30, 1917,	598,351.85		
	$842,886.92		$842,886.92

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CITY OF SPRINGFIELD, MASS.

Cash Receipts and Cash Payments of the City Treasury.

(Exclusive of Sinking Fund.)

For the Year Ended November 30, 1917.

SUMMARY

Receipts		Payments	
General Fund (Schedule G.),	$6,700,494.67	General Fund,	$6,870,391.29
Water Fund (Schedule G.),	520,098.25	Water Fund,	630,696.19
Capital Fund (Schedule G.),	309,840.49	Capital Fund,	631,784.06
Special and Trust Fund (Schedule G.),	12,179.20	Special and Trust Fund,	30,410.55
	$7,542,612.61		$7,774,180.99
Balance on December 1, 1916,	685,459.73	Balance on November 30, 1917,	453,891.35
	$8,228,072.34		$8,228,072.34

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CASH RECEIPTS.

(Schedule G.)

GENERAL FUND.

TAXES.			
Year 1917.			
Poll,	$62,906.00		
Personal,	413,994.88		
Real,	2,249,972.84		
		$2,726,873.72	
Year 1916.			
Poll,	$2,302.00		
Personal,	51,448.65		
Real,	712,193.33		
		765,943.98	
Year 1915.			
Poll,	$64.00		
Personal,	366.37		
Real,	7.28		
		437.65	
Taxes Paid After Abatement,		102.67	
From the Commonwealth.			
Income Tax,	$267,561.54		
Corporation Tax,	279,828.23		
Street Railway Tax,	21,954.79		
National Bank Tax,	5,347.85		
		574,692.41	
			$4,068,050.43
FEES.			
Assessors,		$10.90	
City Clerk,		1,538.25	
City Collector,		5,822.17	
License Commissioners,		488.00	
Lockup,		135.00	
Public Sanitary,		474.00	
Public Telephone,		69.96	
Sealer of Weights and Measures,		700.09	
			9,238.37
FINES.			
Police Court,		$13,413.33	
House of Correction,		1,206.00	
			14,619.33
INTEREST.			
On Bank Balances.			
City Clerk,	$36.21		
City Collector,	1,331.58		
City Treasurer,	9,084.76		
		$10,452.55	
On Bonds Sold (Accrued),		750.00	
On Special Assessments,		528.00	
On Taxes,		19,739.17	
			31,469.72
Forward,			$4,123,377.85

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Forward,		$4,123,377.85
LICENSES.		
Auctioneers,	$48.00	
Bowling Alleys,	20.00	
Common Victualers,	530.00	
Dance,	354.00	
Dead Animal Removal,	1.00	
Dog,	4,934.58	
Elevator Operator,	227.50	
Exhibition,	269.00	
Express,	261.00	
Innholders,	30.00	
Intelligence Office,	34.00	
Jitney,	254.00	
Jitney Operator,	50.00	
Liquor,	163,242.20	
Manicure and Massage,	7.00	
Milk,	498.00	
Pawnbrokers,	250.00	
Peddlers,	125.00	
Peddlers (Fruit and Vegetable),	2,025.00	
Poolroom,	872.00	
Private Detective,	10.00	
Rag Gatherers,	561.00	
Second-Hand Dealers,	124.00	
Sunday Sales,	955.00	
Sunday Theater,	6,383.00	
Taxicab,	968.00	
Theater,	1,150.00	
		184,183.28
PERMITS.		
Marriage,	$1,526.00	
Sewer Entrance,	33,390.79	
Street Obstructions,	6,902.11	
Street Opening,	311.30	
Sign,	53.00	
		42,183.20
RENTS.		
Administration Building,	$3,097.80	
Auditorium,	10,979.00	
Dwight Street Property,	2,598.23	
Municipal Organ,	100.00	
Miscellaneous,	2,129.18	
School Halls,	607.00	
School Property,	2,286.00	
		21,797.21
SPECIAL ASSESSMENTS.		
Betterments- Street,	$21,504.67	
Sidewalks and Curbing,	25,000.09	
Watering Streets, 1917,	28,096.97	
Watering Streets, 1916,	8,421.32	
		83,023.05
TEMPORARY LOANS,		1,490,000.00
Forward,		$5,944,564.59

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Forward,			$5,944,564.59
SINKING FUND COMMISSIONERS.			
For Retirement of Bonds,			495,000.00
CHARITIES, DEPARTMENT OF.			
Care at Almshouse.			
From State,	$3,151.75		
From Cities and Towns,	1,432.99		
From Individuals,	3,586.27		
		$8,171.01	
Miscellaneous Sales.			
Almshouse Products,	$1,367.25		
Wood,	1,971.53		
		3,338.78	
Recovered Expenditures.			
From State,	$27,650.07		
From Cities and Towns,	4,566.97		
From Individuals,	178.45		
Sundry,	3.32		
		32,398.81	
			43,908.60
CITY PROPERTY COMMITTEE.			
Municipal Group Buildings.			
Miscellaneous Sales,	$45.01		
Recovered Expenditures,	36.33		
		$81.34	
Schoolhouse Property.			
Miscellaneous Sales,	$98.06		
Receovered Expenditures,	545.18		
		643.24	
Sale of Buildings,		335.00	
			1,059.58
FIRE DEPARTMENT.			
Miscellaneous Sales,			2,487.18
HEALTH DEPARTMENT.			
Care at Hospital,		$13,294.99	
Recovered Expenditures,		30.50	
			13,325.49
POLICE DEPARTMENT.			
Miscellaneous Sales,		$1,198.92	
Recovered Expenditures,		8.00	
Sale of Uniform Cloth,		422.52	
			1,629.44
PUBLIC PARKS, DEPARTMENT OF.			
Bathhouse Fees,		$1,263.25	
Miscellaneous Sales,		473.05	
Services—Care of Grounds,		51.00	
			1,787.30
Forward,			$6,503,762.18

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Forward,			$6,503,762 18
SCHOOLS, DEPARTMENT OF.			
High Schools Lunches,		$27,852.09	
Miscellaneous Sales.			
Sundry,	$1,158.56		
Vocational School,	242.28		
		1,400.84	
Moving Picture Receipts,		389.00	
Recovered Expenditures,		15.00	
Tuition.			
Central High,	$6,154.00		
Technical High,	11,956.00		
High School of Commerce,	8,819.75		
Graded Schools,	3,940.02		
Vocational School,	3,109.50		
Evening Trades,	2,605.25		
Evening High,	924.00		
Evening Vocational,	164.50		
Evening Elementary,	10.00		
		37,688.02	
Vocational School—From Commonwealth,		8,846.90	
			76,186.85
SOLDIERS' AND SAILORS' BENEFITS.			
Reimbursement—From Commonwealth,			14,336.00
STREETS AND ENGINEERING, DEPARTMENT OF.			
Miscellaneous Sales,		$7,231.17	
Recovered Expenditures.			
Bridges,	$7,392.95		
Forestry,	228.60		
Highways,	54,658.28		
Repair Shops,	97.52		
Sewers,	1,141.84		
Sidewalks and Curbing,	2,983.86		
Street Cleaning,	100.10		
Street Oiling,	1,189.60		
Prior Year Expenditures,	745.21		
		68,537.96	
Rent of Equipment,		261.00	
Sale of Buildings,		667.00	
Sale of Garbage,		2,019.93	
Sale of Land,		100.00	
Services—Engineering,		1.75	
Street Sprinkling—Street Railway,		2,530.40	
			81,349.21
REFUNDS.			
Petty Cash Funds.			
Assessors Department,	$25.00		
Charities Department,	1,200.00		
City Collector,	50.00		
Forward,	$1,275.00		$6,675,634.24

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Forward,	$1,275.00		$6,675,634 24
City Property Committee,	100.00		
Health Department,	50.00		
High Schools Lunch,	800.00		
Law Department,	50.00		
Police Department,	600.00		
School Department,	300.00		
Streets and Engineering, Department of,	300.00		
Workmen's Compensation Agent,	900.00		
		$4,375.00	
Departmental.			
City Clerk,	$31.00		
City Property Committee—Municipal Group,	32.00		
Fire Department,	19.25		
Health Department,	5.00		
Police Department,	108.64		
School Department,	5.00		
Streets and Engineering, Department of,	15,392.10		
		15,592.99	
			19,967.99
MISCELLANEOUS.			
Miscellaneous Sales.			
Assessors Department,	$51.01		
Auditing Department,	92.50		
Building Department,	1.05		
City Collector,	100.00		
City Treasurer,	112.15		
Municipal Heating Plant,	.70		
Public Works, Board of,	40.00		
Sealer of Weights and Measures,	204.82		
		$602.23	
Municipal Market Committee.			
Fees,	$408.15		
Miscellaneous Sales,	450.79		
		858.94	
Premium on Bonds,		3,272.00	
Recovered Expenditures.			
Prior Year.			
Damages to Persons and Property,	$9.00		
Fire Department,	1.50		
Police Department,	51.75		
Workmen's Compensation,	86.70		
		148.95	
Use of Electric Light,	$5.32		
Use of Gas,	5.00		
		10.32	
			4,892.44
Forward,			$6,700,494.67

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Forward,			$6,700,494.67
WATER FUND.			
DAMAGE AWARDS,		$20,000.00	
REFUNDS.			
Petty Cash,	$500.00		
Sundry,	30.49		
		530.49	
SALE OF WATER,		443,262.17	
SALE OF MISCELLANEOUS MATERIAL,		56,305.59	
			520,098.25
CAPITAL FUND.			
RECOVERED EXPENDITURES.			
Hillman Street Extension,		$9,828.88	
Refunds.			
Hooker School,	$2.03		
Worthington Street School,	9.58		
		11.61	
Sale of Bonds,		300,000.00	
			309,840.49
SPECIAL AND TRUST FUND.			
BEQUESTS—SUNDRY.			
Gurdon Bill,	$5,000.00		
Helen M. Hosley,	4,628.13		
Chas. S. Marsh,	312.21		
Wm. H. Smith,	614.82		
McKinley Monument Fund,	618.33		
		$11,173.49	
INTEREST.			
Sherman D. Porter Fund,	$251.06		
Court Square Extension Fund,	754.65		
		1,005.71	
			12,179.20
Total—1917 Receipts,			$7,542,612.61

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OPERATING STATEMENT.

Year Ended November 30, 1917.

GENERAL FUND.			
Revenues Accrued:			
Taxes,	$3,560,895.05		
Special Assessments,	82,910.73		
Miscellaneous Sales,	21,629.22		
Miscellaneous Sources,	980,249.37		
Recovered Expenditures,	72,128.04		
		$4,717,812.41	
Expense Incurred (Schedule H),		4,641,820.00	
Excess—Revenue over Expense,			$75,992.41
WATER FUND.			
Revenues Accrued:			
Water Rates,	$446,738.60		
Miscellaneous Sales,	58,087.81		
		$504,826.41	
Expense Incurred (Schedule J),		319,026.34	
Excess—Revenue over Expense,			$185,800.07

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EXPENSE INCURRED IN YEAR ENDED NOVEMBER 30, 1917

GENERAL FUND.

(Schedule H.)

Department.		
Assessors,	(Schedule 1)	$23,952.57
Building Commissioner,	(Schedule 2)	20,341.29
Celebrations,	(Schedule 3)	2,300.00
Charities,	(Schedule 4)	95,123.60
Citizens' Protection Fund,	(Schedule 5)	720.03
City Auditor,	(Schedule 6)	9,480.75
City Clerk,	(Schedule 7)	10,728.84
City Collector,	(Schedule 8)	18,572.27
City Council,	(Schedule 9)	1,242.60
City Planning Commission,	(Schedule 10)	77.57
City Property Committee,	(Schedule 11)	193,907.55
City Treasurer,	(Schedule 12)	11,108.84
Committee on Mayor's Messages,	(Schedule 13)	327.64
Committee on Public Safety,	(Schedule 14)	3,965.47
Damages to Persons and Property,	(Schedule 15)	9,395.50
Fire,	(Schedule 16)	287,657.90
Fish Warden,	(Schedule 17)	25.00
Health Department,	(Schedule 18)	74,124.35
Law Department,	(Schedule 19)	6,981.82
License Commissioners,	(Schedule 20)	486.85
Mayor,	(Schedule 21)	8,302.25
Militia Rifle Range,	(Schedule 22)	560.74
Military Registration,	(Schedule 23)	101.62
Military Relief Commission,	(Schedule 24)	8,200.00
Municipal Debt:	(Schedule 25)	
City Debt Serials,		306,200.00
City Sinking Funds,		44,000.00
Interest, City Debt,		268,282.75
Interest, Trust Funds,		1,965.10
Interest, Temporary Loans,		27,844.28
Forward,		$1,435,977.18

Department.		
Forward,		$1,435,977.18
Municipal Group Buildings,	(Schedule 26)	42,504.34
Municipal Heating Plant,	(Schedule 27)	12,749.42
Municipal Market Committee,	(Schedule 28)	3,966.40
Municipal Organ,	(Schedule 29)	419.43
Police Department,	(Schedule 30)	295,175.26
Premium on Bonds,	(Schedule 31)	20.40
Printing Committee,	(Schedule 32)	3,730.33
Public Library,	(Schedule 33)	78,934.58
Public Parks,	(Schedule 34)	116,940.28
Public Works,	(Schedule 35)	1,969.35
Refunds,	(Schedule 36)	43,679.11
Registrars of Voters,	(Schedule 37)	17,371.37
Revenues Receivable, Abatement of	(Schedule 38)	15,266.36
Schools,	(Schedule 39)	895,848.88
Sinking Fund Commissioners,	(Schedule 40)	481.00
Smoke Inspector,	(Schedule 41)	321.96
Soldiers' and Sailors' Benefits,	(Schedule 42)	20,568.12
Soldiers' and Sailors' Graves, Care of,	(Schedule 43)	815.00
Streets and Engineering,	(Schedule 44)	1,033,999.84
Taxes, 1916, Reserve for Abated,	(Schedule 45)	8,000.00
Taxes:	(Schedule 46)	
County Tax,		176,227.17
National Bank Tax,		17,821.86
State Tax,		409,750.00
Tax Exemptions, Soldiers' and Sailors,'	(Schedule 47)	2,070.35
Weights and Measures, Sealer of,	(Schedule 48)	3,454.05
Wires, Inspector of,	(Schedule 49)	1,935.59
Workmen's Compensation,	(Schedule 50)	1,872.37
		$4,641,820.00

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DEPARTMENTAL EXPENSE SCHEDULES.

(Supporting Schedule H.)

ASSESSORS (Schedule 1).			
Administration.			
Salaries of Assessors and Assistant Assessors,		$9,116.70	
Salaries and Wages, Other Employees,		10,825.98	
Stationery and Office Supplies,		216.71	
Printing, Binding, etc.,		3,104.44	
Advertising,		54.36	
Communication Service,		384.42	
Transportation Service,		113.81	
Corporation and Special Work,		136.15	
			$23,952.57
BUILDING COMMISSIONER (Schedule 2).			
Administration.			
Salaries, Building Commissioner, and Board of Appeal,		$3,560.00	
Salaries and Wages, Office Employees,		890.64	
Stationery and Office Supplies,		47.86	
Printing, Binding, etc.,		261.05	
Communication Service,		68.00	
Transportation Service,		300.00	
Other Miscellaneous Expenses and Supplies,		127.05	
Traveling Expenses,		75.68	
			$5,330.28
Operation.			
Salaries of Inspectors,		$13,766.71	
Automobile Service.			
Operating Supplies,	$628.50		
Repairs and Replacements,	513.65		
Other Expenses,	80.00		
		1,222.15	
Supplies, Not Otherwise Provided for,		22.15	
			15,011.01
			$20,341.29
CELEBRATIONS (Schedule 3).			
Independence Day Observances,		$1,400.00	
Memorial Day Observances,		900.00	
			$2,300.00
CHARITIES (Schedule 4).			
General Administration.			
Salaries, Agent and Physician,		$3,900.00	
Salaries and Wages, Other Employees,		4,746.24	
Stationery and Office Supplies,		53.43	
Printing, Binding, etc.,		204.32	
Communication Service,		179.87	
Transportation Service,		139.59	
Other Miscellaneous Expenses and Supplies,		17.31	
			$9,240.76
Forward,			$9,240.76

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Forward,			$9,240.76
Almshouse.			
Administration.			
Salaries,	$1,680.00		
Stationery and Office Supplies,	37.93		
Advertising, Subscriptions, etc.,	12.90		
Communication Service,	27.71		
Transportation Service,	36.15		
Other Miscellaneous Expenses and Supplies,	148.35		
Light,	102.21		
Medical Attendance,	37.75		
		$2,083.00	
Operation.			
Care of Inmates.			
Salaries, Nurses and Attendants,	$12,517.71		
Medical Supplies,	1,940.77		
Clothing, Dry Goods, etc.,	761.99		
Provisions,	11,977.60		
Cleaning, Toilet, and Janitor Supplies,	530.94		
Supplies,	600.87		
		28,329.88	
Farm and Dairy.			
Supplies,	$1,714.41		
Materials,	741.74		
Care of Animals,	264.10		
Fuel,	7,815.87		
Mechanical and Electrical Supplies,	334.17		
		10,870.29	
Maintenance and Repairs.			
Equipment.			
Farm and Dairy,	$197.07		
Furniture and Household,	286.19		
Heating, Lighting, and Plumbing,	838.73		
Buildings,	37.25		
		1,359.24	
Replacements.			
Equipment.			
Farm and Dairy,	$109.69		
Furniture and Household,	312.03		
Heating, Plumbing, and Electrical,	37.51		
Other,	2.68		
		461.91	
			43,104.32
Division of Relief.			
Care of Persons in Institutions,		$5,400.56	
Contributions to Persons,		12,990.08	
Payments to Cities and Towns,		2,572.51	
Transportation,		463.44	
Burials,		719.00	
Moving Household Furniture,		70.36	
Forward,		$22,215.95	$52,345.08

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Forward,		$22,215.95	$52,345.08
Supplies Furnished.			
Fuel,	$2,413.16		
Provisions,	16,968.24		
Clothing,	921.08		
Medicines,	1,143 46		
Other Supplies,	26.85		
		21,472.79	
			43,688.74
Wayfarer's Lodge.			
Operation.			
Salaries and Wages,	$1,002.52		
Supplies,	1,608.56		
		$2,611.08	
Maintenance and Repairs.			
Equipment,		229.32	
			2,840.40
Total Expense,			$98,874.22
Less Transfers and Refunds,			*3,750.62*
			$95,123.60

CITIZEN'S PROTECTION FUND (Schedule 5).

Miscellaneous Expenses and Supplies,	$720.03

CITY AUDITOR (Schedule 6).

Administration.		
Salary of City Auditor,	$3,000.00	
Salaries and Wages, Other Employees,	5,730.75	
Stationery and Office Supplies,	196.41	
Printing, Binding, etc.,	279.05	
Communication Service,	37.00	
Transportation Service,	9.87	
Other Miscellaneous Expenses and Supplies,	227.67	
		$9,480.75

CITY CLERK (Schedule 7).

Administration.		
Salary of City Clerk,	$3,000.00	
Salaries and Wages, Other Employees,	5,166.64	
Stationery and Office Supplies,	136.87	
Printing, Binding, etc.,	319.80	
Advertising,	7.50	
Communication Service,	182.62	
Other Miscellaneous Expenses and Supplies,	150.81	
Preparation of Vital Statistics,	1,795.60	
Total Expense,		$10,759.84
Less Refunds,		*31.00*
		$10,728.84

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CITY COLLECTOR (Schedule 8).

Administration.		
Salary of City Collector,	$3,200.00	
Salaries and Wages, Other Employees,	9,787.42	
Stationery and Office Supplies,	298.70	
Printing, Binding, etc.,	530.46	
Advertising,	898.41	
Communication Service,	2,720.87	
Transportation Service,	58.28	
Fees, Commissions and Premiums,	311.25	
Other Miscellaneous Expenses and Supplies,	766.88	
		$18,572.27

CITY COUNCIL (SCHEDULE 9).

Administration.		
Salaries and Wages,	$500.00	
Stationery and Office Supplies,	6.75	
Printing, Binding, etc.,	132.19	
Advertising,	440.45	
Communication Service,	67.36	
Transportation Service,	35.00	
Other Miscellaneous Expenses and Supplies,	60.85	
		$1,242.60

CITY PLANNING COMMISSION (Schedule 10).

Administration.		
Printing, Binding, etc.,	$58.17	
Communication Service,	15.00	
Other Miscellaneous Expenses and Supplies,	4.40	
		$77.57

CITY PROPERTY COMMITTEE (Schedule 11).

General Administration.		
Salary, Schoolhouse Agent,	$2,393.56	
Salaries and Wages, Other Employees,	2,558.00	
Stationery and Office Supplies,	13.35	
Printing and Binding,	92.19	
Advertising,	52.48	
Communication Service,	62.81	
Transportation Service,	543.70	
Fees, Commissions and Premiums,	2,588.41	
Other Miscellaneous Expenses and Supplies,	17.40	
Vacations and Other Lost Time,	448.78	
		$8,770.68
General Operation.		
Motor Vehicle Service.		
Salaries, Chauffeurs,	$1,273.83	
Operating Supplies,	602.91	
Other Expenses,	173.58	
		2,050.32
Forward,		$10,821.00

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Forward,			$10,821.00
Schoolhouse Property.			
Acushnet Avenue.			
Care and Operation,	$2,857.32		
Maintenance and Repairs.			
Equipment and Fixtures,	651.19		
Buildings and Grounds,	236.83		
		$3,745.34	
Alden Street.			
Care and Operation,	$1,459.83		
Maintenance and Repairs.			
Equipment and Fixtures,	129.02		
Buildings and Grounds,	79.92		
		1,668.77	
Armory Street.			
Care and Operation,	$4,565.34		
Maintenance and Repairs.			
Equipment and Fixtures,	416.43		
Buildings and Grounds,	114.87		
		5,096.64	
Barrows.			
Care and Operation,	$2,064.64		
Maintenance and Repairs.			
Equipment and Fixtures,	175.31		
Buildings and Grounds,	514.66		
		2,754.61	
Boston Road.			
Care and Operation,	$985.91		
Maintenance and Repairs.			
Equipment and Fixtures,	118.18		
Buildings and Grounds,	73.73		
		1,177.82	
Brightwood.			
Care and Operation,	$3,145.26		
Maintenance and Repairs.			
Equipment and Fixtures,	314.81		
Buildings and Grounds,	137.95		
		3,598.02	
Buckingham.			
Care and Operation,	$6,367.69		
Maintenance and Repairs.			
Equipment and Fixtures,	694.39		
Buildings and Grounds,	309.39		
		7,371.47	
Carew Street.			
Care and Operation,	$2,494.80		
Maintenance and Repairs.			
Equipment and Fixtures,	195.32		
Buildings and Grounds,	515.09		
		3,205.21	
Forward,		$28,617.88	$10,821.00

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Forward,		$28,617.88	$10,821 00
Central Street.			
Care and Operation,	$4,184.51		
Maintenance and Repairs.			
Equipment and Fixtures,	431.17		
Buildings and Grounds,	224.11		
		4,789.79	
374 Central Street.			
Care and Operation,	$267.19		
Maintenance and Repairs.			
Equipment and Fixtures,	122.15		
Buildings and Grounds,	16.82		
		406.16	
Charles Street.			
Care and Operation,	$1,239.97		
Maintenance and Repairs.			
Equipment and Fixtures,	100.79		
Buildings and Grounds,	68.44		
		1,409.20	
Chestnut Street.			
Care and Operation,	$10,522.51		
Maintenance and Repairs.			
Equipment and Fixtures,	1,620.15		
Buildings and Grounds,	273.60		
		12,416.26	
Dry Bridge.			
Care and Operation,	$695.17		
Maintenance and Repairs.			
Equipment and Fixtures,	36.52		
Buildings and Grounds,	13.45		
		745.14	
Eastern Avenue.			
Care and Operation,	$1,916.68		
Maintenance and Repairs.			
Equipment and Fixtures,	157.75		
Buildings and Grounds,	73.80		
		2,148.23	
East Union Street.			
Care and Operation,	$2,005.96		
Maintenance and Repairs.			
Equipment and Fixtures,	111.57		
Buildings and Grounds,	41.20		
		2,158.73	
Emery Street.			
Care and Operation,	$2,320.48		
Maintenance and Repairs.			
Equipment and Fixtures,	382.73		
Buildings and Grounds,	696.59		
		3,399.80	
Forward,		$56,091.19	$10,821.00

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Forward,.....		$56,091.19	$10,821.00
Five Mile Pond.			
Care and Operation,.....	$348.74		
Maintenance and Repairs.			
Equipment and Fixtures,.....	24.25		
Buildings and Grounds,.....	41.19		
		414.18	
Forest Park.			
Care and Operation,.....	$5,240.68		
Maintenance and Repairs.			
Equipment and Fixtures,.....	1,261.04		
Buildings and Grounds,.....	630.53		
		7,132.25	
Glenwood.			
Care and Operation,.....	$1,087.45		
Maintenance and Repairs.			
Equipment and Fixtures,.....	27.89		
Buildings and Grounds,.....	10.77		
		1,126.11	
Central High.			
Care and Operation,.....	$10,910.38		
Maintenance and Repairs.			
Equipment and Fixtures,.....	923.77		
Buildings and Grounds,.....	650.91		
		12,485.06	
High School of Commerce.			
Care and Operation,.....	$24,493.79		
Maintenance and Repairs.			
Equipment and Fixtures,.....	1,486.54		
Buildings and Grounds,.....	138.01		
		26,118.34	
Technical High.			
Care and Operation,.....	$14,283.86		
Maintenance and Repairs.			
Equipment and Fixtures,.....	1,456.68		
Buildings and Grounds,.....	896.65		
		16,637.19	
Homer Street.			
Care and Operation,.....	$2,282.42		
Maintenance and Repairs.			
Equipment and Fixtures,.....	788.37		
Buildings and Grounds,.....	205.84		
		3,276.63	
Hooker.			
Care and Operation,.....	$3,892.61		
Maintenance and Repairs.			
Equipment and Fixtures,.....	486.13		
Buildings and Grounds,.....	236.43		
		4,615.17	
orward,.....		$127,896.12	$10,821.00

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Forward,		$127,896.12	$10,821.00
Howard Street.			
Care and Operation,	$6,269.44		
Maintenance and Repairs.			
Equipment and Fixtures,	457.45		
Buildings and Grounds,	941.25		
		7,668.14	
Indian Orchard Grammar.			
Care and Operation,	$5,721.68		
Maintenance and Repairs.			
Equipment and Fixtures,	381.51		
Buildings and Grounds,	59.81		
		6,163.00	
Indian Orchard Primary.			
Care and Operation,	$1,717.37		
Maintenance and Repairs.			
Equipment and Fixtures,	234.04		
Buildings and Grounds,	69.75		
		2,021.16	
Jefferson Avenue.			
Care and Operation,	$1,890.40		
Maintenance and Repairs.			
Equipment and Fixtures,	118.49		
Buildings and Grounds,	320.88		
		2,329.77	
Kensington Avenue.			
Care and Operation,	$2,777.65		
Maintenance and Repairs.			
Equipment and Fixtures,	126.86		
Buildings and Grounds,	78.87		
		2,983.38	
Lincoln.			
Care and Operation,	$2,886.86		
Maintenance and Repairs.			
Equipment and Fixtures,	380.03		
Buildings and Grounds,	279.91		
		3,546.80	
School Street.			
Care and Operation,	$1,169.72		
Maintenance and Repairs.			
Equipment and Fixtures,	65.77		
Buildings and Grounds,	81.69		
		1,317.18	
Sixteen Acres.			
Care and Operation,	$690.37		
Maintenance and Repairs.			
Equipment and Fixtures,	17.43		
Buildings and Grounds,	144.24		
		852.04	
Forward,		$154,777.59	$10,821.00

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Forward,		$154,777.59	$10,821.00
State Street.			
Care and Operation,	$3,549.98		
Maintenance and Repairs.			
Equipment and Fixtures,	279.28		
Buildings and Grounds,	358.97		
		4,188.23	
Strickland.			
Care and Operation,	$1,930.92		
Maintenance and Repairs.			
Equipment and Fixtures,	149.06		
Buildings and Grounds,	46.97		
		2,126.95	
Sumner Avenue.			
Care and Operation,	$2,414.35		
Maintenance and Repairs.			
Equipment and Fixtures,	309.12		
Buildings and Grounds,	151.68		
		2,875.15	
Tapley.			
Care and Operation,	$3,298.46		
Maintenance and Repairs.			
Equipment and Fixtures,	373.44		
Buildings and Grounds,	66.50		
		3,738.40	
47 Vernon Street.			
Care and Operation,	$12.84		
Maintenance and Repairs.			
Equipment and Fixtures,	1.99		
Buildings and Grounds,	4.05		
		18.88	
Vocational.			
Care and Operation,	$3,172.80		
Maintenance and Repairs.			
Equipment and Fixtures,	317.54		
Buildings and Grounds,	23.42		
		3,513.76	
White Street.			
Care and Operation,	$2,767.27		
Maintenance and Repairs.			
Equipment and Fixtures,	333.59		
Buildings and Grounds,	520.44		
		3,621.30	
William Street.			
Care and Operation,	$2,599.01		
Maintenance and Repairs.			
Equipment and Fixtures,	248.67		
Buildings and Grounds,	233.59		
		3,081.27	
Forward,		$177,941.53	$10,821.00

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Forward,		$177,941.53	$10,821.00
Worthington Street.			
Care and Operation,	$3,168.82		
Maintenance and Repairs.			
Equipment and Fixtures,	381.26		
Buildings and Grounds,	617.11		
		4,167.19	
Oaklands.			
Care and Operation,	$701.71		
Maintenance and Repairs.			
Equipment and Fixtures,	11.66		
Buildings and Grounds,	39.01		
		752.38	
Carlisle.			
Care and Operation,		32.80	
Rushville.			
Care and Operation,	$610.85		
Maintenance and Repairs.			
Equipment and Fixtures,	14.85		
Buildings and Grounds,	37.63		
		663.33	
Bogart Property.			
Care and Operation,		17.12	
65 School Street.			
Care and Operation,		38.80	
60-67-70 Spring Street.			
Care and Operation,		114.04	
49 Sumner Avenue.			
Care and Operation,	$35.84		
Maintenance and Repairs.			
Equipment and Fixtures,	.56		
		36.40	
Other Property.			
Care and Operation,		152.05	
Total Schoolhouse Property,			183,915.64
Total Expense,			$194,736.64
Less Transfers and Refunds,			*829.09*
			$193,907.55

CITY TREASURER (Schedule 12).		
Administration.		
Salary of City Treasurer,	$3,499.92	
Salaries and Wages, Other Employees,	6,416.47	
Stationery and Office Supplies,	175.58	
Printing, Binding, etc.,	274.82	
Communication Service,	168.09	
Transportation Service,	55.63	
Fees, Commissions and Premiums,	430.90	
Other Miscellaneous Expenses and Supplies,	87.43	
		$11,108.84

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COMMITTEE ON MAYOR'S MESSAGES (Schedule 13).			
Miscellaneous Expenses and Supplies,			$327.64
COMMITTEE ON PUBLIC SAFETY (Schedule 14).			
Miscellaneous Expenses and Supplies,			$3,965.47
DAMAGES TO PERSONS AND PROPERTY (Schedule 15).			
Personal,		$7,977.50	
Property,		1,418.00	
			$9,395.50
FIRE DEPARTMENT (Schedule 16).			
General Administration.			
Salaries, Chief, Deputy Chief and District Chiefs,		$9,233.96	
Salaries and Wages, Other Employees,		1,862.50	
Stationery and Office Supplies,		71.86	
Printing, Binding, etc.,		57.43	
Communication Service,		773.67	
Transportation Service,		96.94	
Pensions,		3,051.51	
			$15,147.87
Fire Protection.			
Station No. 1, Court Street.			
Salaries,	$23,995.28		
Supplies and Expenses,	2,260.30		
		$26,255.58	
Station No. 2, North Street.			
Salaries,	$13,742.47		
Supplies and Expenses,	1,177.44		
		14,919.91	
Station No. 3, Oakland Street.			
Salaries,	$21,653.97		
Supplies and Expenses,	727.66		
		22,381.63	
Station No. 4, Walnut Street.			
Salaries,	$22,632.54		
Supplies and Expenses,	1,051.17		
		23,683.71	
Station No. 5, Indian Orchard.			
Salaries,	$16,368.11		
Supplies and Expenses,	498.58		
		16,866,69	
Station No. 6, Mill Street.			
Salaries,	$19,520.50		
Supplies and Expenses,	670.25		
		20,190.75	
Station No. 7, Chestnut Street.			
Salaries,	$19,695.00		
Supplies and Expenses,	687.11		
		20,382.11	
Forward,		$144,680.38	$15,147.87

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Forward,		$144,680.38	$15,147.87
Station No. 8, Winchester Park.			
Salaries,	$21,785.98		
Supplies and Expenses,	1,214.67		
		23,000.65	
Station No. 9, Armory Street.			
Salaries,	$10,544.96		
Supplies and Expenses,	300.67		
		10,845.63	
Station No. 10, North Main Street.			
Salaries,	$20,164.64		
Supplies and Expenses,	1,170.55		
		21,335.19	
Station No. 11, Plainfield Street.			
Salaries,	$9,222.31		
Supplies and Expenses,	133.81		
		9,356.12	
Station No. 12, Margaret Street.			
Salaries,	$9,275.16		
Supplies and Expenses,	675.73		
		9,950.89	
Station No. 13, Pine Street.			
Salaries,	$22,249.96		
Supplies and Expenses,	912.58		
		23,162.54	
Station No. 14, Boston Road.			
Supplies and Expenses,		.56	
			$242,331.96
Fire Alarm Telegraph Bureau.			
Salary, Superintendent,		$1,450.00	
Salaries and Wages, Permanent Employees,		8,399.05	
Wages, Outside Labor,		105.14	
Repairs and Replacements of Equipment,		3,366.25	
Operating Supplies,		185.21	
Operating Expense,		248.59	
			13,754.24
Motor Vehicle Service.			
Supplies,			196.35
Extension of System.			
Terminals,		$200.00	
Boxes,		798.00	
Posts,		330.71	
Miscellaneous,		15.98	
			1,344.69
Supplies Not Chargeable Elsewhere.			
Clothing,		$162.33	
Oils and Lubricants,		139.50	
			301.83
Forward,			$273,076.94

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Forward,		$273,076.94
Maintenance and Repairs.		
Apparatus.		
Station No. 1, Court Street,	$1,640.98	
Station No. 2, North Street,	1,969.43	
Station No. 3, Oakland Street,	75.32	
Station No. 4, Walnut Street,	937.71	
Station No. 5, Indian Orchard,	184.71	
Station No. 6, Mill Street,	63.59	
Station No. 7, Chestnut Street,	537.42	
Station No. 8, Winchester Park,	1,092.24	
Station No. 9, Armory Street,	13.71	
Station No. 10, North Main Street,	136.49	
Station No. 11, Plainfield Street,	151.87	
Station No. 13, Pine Street,	398.66	
Undistributed,	2,129.90	
		9,332.03
Buildings and Grounds.		
Station No. 1, Court Street,	$302.30	
Station No. 2, North Street,	193.26	
Station No. 3, Oakland Street,	1,078.33	
Station No. 4, Walnut Street,	81.77	
Station No. 5, Indian Orchard,	82.45	
Station No. 6, Mill Street,	82.59	
Station No. 7, Chestnut Street,	84.25	
Station No. 8, Winchester Park,	79.81	
Station No. 9, Armory Street,	112.62	
Station No. 10, North Main Street,	79.41	
Station No. 11, Plainfield Street,	109.68	
Station No. 12, Margaret Street,	46.94	
Station No. 13, Pine Street,	61.65	
		2,425.06
Replacement Not Elsewhere Provided For.		
Nozzles,	$153.84	
Hose,	1,168.32	
Other Miscellaneous,	82.59	
Undistributed,	1,419.12	
		2,823.87
Total,		$287,657.90

FISH WARDEN (Schedule 17).

Salary of Fish Warden,	$25.00

HEALTH DEPARTMENT (Schedule 18).

Division of Inspection.		
Administration.		
Salary, Agent,	$2,000.00	
Salaries and Wages, Other Employees,	2,824.74	
Stationery and Office Supplies,	90.96	
Printing, Binding, etc.,	213.69	
Communication Service,	183.21	
Forward,	$5,312.60	

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Forward,	$5,312.60		
Transportation Service,	31.11		
Traveling Expenses,	28.07		
Other Miscellaneous Expenses and Supplies,	55.30		
		$5,427.08	
Operation.			
Sanitary Inspection.			
Salaries, Inspectors,	$7,933.20		
Other Expenses,	265.00		
		8,198.20	
Medical Inspection of School Children.			
Salaries, Inspectors and Nurses,	$10,214.18		
Supplies,	132.44		
Other Expenses,	415.11		
		10,761.73	
Milk and Dairy Inspection.			
Salaries, Inspectors,	$2,999.92		
Other Expenses,	714.93		
		3,714.85	
Food Inspection.			
Salaries, Inspectors,		1,500.00	
Laboratory Service.			
Salaries and Wages,	$2,100.00		
Laboratory Supplies,	182.21		
Other Expenses,	1,131.17		
		3,413.38	
Operating Supplies Not Chargeable Elsewhere.			
Disinfectants,	$248.35		
Other Supplies,	1.50		
		249.85	
Tuberculosis Dispensary.			
Salaries,	$900.00		
Supplies,	117.84		
Other Expenses,	776.82		
		1,794.66	
Dental Clinic.			
Supplies,		103.28	
			$35,163.03
Division of Hospitals.			
Administration.			
Salary, Matron,	$966.64		
Stationery and Office Supplies,	30.95		
Printing, Binding, etc.,	74.69		
Communication Service,	9.20		
Transportation Service,	645.11		
Heat, Light and Power,	3,014.86		
Other Miscellaneous Expenses and Supplies,	60.13		
		$4,801.58	
Operation.			
Professional Care of Patients.			
Salaries and Wages,	$8,221.50		
Medical and Surgical Supplies,	2,018.33		
Other Expenses,	1,011.00		
		11,250.83	
orward,		$16,052.41	$35,163.03

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Forward,		$16,052.41	$35,163.03
Feeding Patients and Employees.			
Salaries and Wages,	$885.11		
Provisions,	12,348.61		
		13,233.72	
Housekeeping.			
Household Supplies,	$1,007.57		
Other Expenses,	82.11		
		1,089.68	
Laundry Service,		2,143.89	
Supplies Not Chargeable Elsewhere.			
Fuel,	$460.56		
Disinfectants,	137.19		
		597.75	
Maintenance and Repairs.			
Hospital Equipment.			
Medical and Surgical,	$4.90		
Household,	22.40		
Other,	83.87		
		111.17	
Building Equipment.			
Heating System,	$5.10		
Lighting System,	6.50		
Plumbing System,	87.55		
		99.15	
Buildings and Real Property.			
Buildings,	$171.76		
Grounds,	8.85		
		180.61	
Replacements.			
Hospital Equipment, Household,		565.56	
Payments to Other Institutions.			
Payments to Hospitals,		4,887.38	
			38,961.32
			$74,124.35

LAW DEPARTMENT (Schedule 19).		
Administration.		
Salary of City Solicitor and Assistant City Solicitor,	$4,699.92	
Salaries and Wages, Other Employees,	798.00	
Stationery and Office Supplies,	73.95	
Printing, Binding, etc.,	70.62	
Communication Service,	78.81	
Transportation Service,	231.35	
Fees, Commissions, and Premiums,	972.03	
Other Miscellaneous Expenses and Supplies,	21.14	
Vacations and Other Lost Time,	36.00	
		$6,981.82

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LICENSE COMMISSIONERS (Schedule 20).		
Administration.		
Salaries and Wages, Chairman and Clerk,	$400.00	
Printing, Binding, etc.,	86.85	
		$486.85
MAYOR (Schedule 21).		
Administration.		
Salary of Mayor,	$4,000.00	
Salaries and Wages, Other Employees,	1,200.00	
Stationery and Office Supplies,	61.68	
Printing, Binding, etc.,	110.97	
Communication Service,	95.21	
Entertainments,	158.10	
Traveling Expenses,	315.66	
Other Miscellaneous Expenses and Supplies,	28.35	
Vacations and Other Lost Time,	30.00	
		$5,999.97
Operation.		
Automobile Service.		
Salary, Chauffeur,	$1,099.06	
Operating Supplies,	649.70	
Repairs and Replacements,	313.12	
Other Expenses,	240.40	
		2,302.28
		$8,302.25
MILITIA RIFLE RANGE (Schedule 22).		
Administration.		
Insurance,	$30.00	
Taxes and Water Rents,	140.29	
		$170.29
Operation.		
Salaries and Wages,		312.00
Maintenance and Repairs.		
Other Expenses,		78.45
		$560.74
MILITARY REGISTRATION (Schedule 23).		
Miscellaneous Expenses and Supplies,		$101.62
MILITARY RELIEF COMMISSION (Schedule 24).		
Miscellaneous Expenses and Supplies,		$8,200.00
MUNICIPAL DEBT (Schedule 25).		
Principal.		
City Debt Serials,		$306,200.00
Interest.		
City Debt,	$268,282.75	
Temporary Loans,	27,844.28	
Trust Funds,	1,965.10	
		298,092.13
Sinking Fund.		
City Debt,		44,000.00
		$648,292.13

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MUNICIPAL GROUP BUILDINGS (Schedule 26).

General Administration.			
Salary, Superintendent,		$1,994.52	
Salaries and Wages, City Messenger,		1,400.00	
Stationery and Office Supplies,		15.70	
Printing, Binding, etc.,		7.58	
Communication Service,		4.11	
Fees, Commissions and Premiums,		69.94	
			$3,491.85
Operation.			
Salary, Head Janitor,			1,232.00
Administration Building.			
Administration.			
Communication Service,	$3,383.33		
Transportation Service,	12.45		
Heat, Light and Power,	2,732.47		
Other Miscellaneous Expenses and Supplies,	4.50		
		$6,132.75	
Operation.			
Salaries and Wages, Care and Cleaning,	$14,096.67		
Mechanics', Engineers', Supplies,	62.14		
Cleaning, Toilet and Janitor Supplies,	769.18		
Electrical Supplies,	70.26		
Other Supplies,	447.41		
Special Cleaning Expenses,	586.36		
		16,032.02	
Maintenance and Repairs.			
Equipment and Plant,	$504.99		
Buildings and Grounds,	445.53		
		950.52	
			23,115.29
Auditorium.			
Administration.			
Transportation Service,	$38.79		
Heat, Light and Power,	1,792.44		
		$1,831.23	
Operation.			
Salaries and Wages, Care and Cleaning,	$3,642.12		
Mechanics' and Engineers' Supplies,	7.69		
Cleaning, Toilet and Janitor Supplies,	204.95		
Electrical Supplies,	3.12		
Special Cleaning Expenses,	866.00		
		4,723.88	
Maintenance and Repairs.			
Equipment and Plant,	$348.93		
Buildings and Grounds,	146.07		
		495.00	
			7,050.11
Forward,			$34,889.25

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Forward,			$34,889.25
Campanile.			
Administration.			
Heat, Light and Power,		$189.62	
Operation.			
Salaries and Wages, Care and Cleaning,		818.00	
Maintenance and Repairs.			
Equipment and Plant, Other Expenses,	$14.71		
Buildings and Grounds,	5.97		
		20.68	
			1,028.30
Campanile Clock.			
Maintenance and Repairs,			627.02
Grounds.			
Operation, Special Cleaning Expenses, etc.,		$629.74	
Maintenance and Repairs,		47.25	
			676.99
Public Sanitary.			
Operation.			
Salaries and Wages, Care and Cleaning,	$4,050.00		
Transportation Service,	10.21		
Mechanics' and Engineers' Supplies,	3.79		
Cleaning, Toilet, and Janitor Supplies,	867.96		
Electrical Supplies,	17.26		
Special Cleaning Expenses,	142.12		
		$5,091.34	
Maintenance and Repairs.			
Equipment,	$184.15		
Buildings and Grounds,	7.29		
		191.44	
			5,282.78
			$42,504.34
MUNICIPAL HEATING PLANT (Schedule 27).			
Administration.			
Salary, Chief Engineer,		$1,867.55	
Stationery and Office Supplies,		2.92	
Communication and Transportation Service,		2.10	
Other Miscellaneous Expenses and Supplies,		236.70	
Vacations and Other Lost Time,		218.00	
			$2,327.27
Operation.			
Salaries and Wages, Boiler Room,		$4,090.48	
Salaries and Wages, Engine Room,		1,397.74	
Other Miscellaneous Expenses,		268.47	
Operating Supplies.			
Coal,	$8,550.51		
Oils and Lubricants,	70.45		
Electrical Supplies,	2.78		
Other Miscellaneous Supplies,	327.38		
		8,951.12	
Other Miscellaneous Expenses,		101.78	
			14,809.59
Forward,			$17,136.86

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Forward,			$17,136.86
Maintenance and Repairs.			
Boiler Room Equipment,		$85.70	
Engine Room Equipment,		9.40	
Other Miscellaneous Expenses,		24.96	
			120.06
			$17,256.92
Less Transfers,			*4,507.50*
			$12,749.42

MUNICIPAL MARKET COMMITTEE (Schedule 28).

Miscellaneous Expenses and Supplies,	$3,966.40

MUNICIPAL ORGAN (Schedule 29).

Maintenance and Repairs,	$419.43

POLICE DEPARTMENT (Schedule 30).

Administration.			
Administration Salaries,		$7,752.50	
Salaries and Wages, Other Employees,		8,851.11	
Stationery and Office Supplies,		735.28	
Printing, Binding, etc.,		1,032.75	
Advertising,		1.15	
Communication Service,		2,863.30	
Transportation Service,		2,021.75	
Fees, Commissions and Premiums,		652.45	
Other Miscellaneous Expenses and Supplies,		3,150.12	
Traveling Expenses, Outside the City,		1,186.09	
Heat, Light and Power,		5,257.58	
Vacations and Other Lost Time,		16,300.00	
Pensions,		8,179.14	
			$57,983.22
Operation.			
Policing the City.			
Salaries, Officers and Patrolmen,		$161,521.42	
Regulation of Traffic.			
Salaries,	$22,150.00		
Expenses,	224.90		
		22,374.90	
Detection of Crime.			
Salaries,	$17,463.21		
Bertillon Supplies,	275.81		
Expenses,	10.70		
		17,749.72	
Police Patrol Service.			
Operating Supplies,	$4,083.64		
Repairs and Replacements,	2,162.12		
Other Expenses,	200.00		
		6,445.76	
Forward,		$208,091.80	$57,983.22

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Forward,		$208,091.80	$57,983.22
Police Court.			
Salaries, Prosecuting Attorney,	$1,200.00		
Salaries, Officers Detailed,	1,300.00		
		2,500.00	
Detention and Care of Prisoners.			
Salaries and Wages,	$15,860.00		
Provisions,	1,971.67		
Other Expenses,	175.84		
		18,007.51	
Police Signal System.			
Salaries and Wages,	$500.00		
Supplies,	1,200.00		
Repairs and Replacements,	866.61		
		2,566.61	
Supplies Used Generally.			
Cleaning, Toilet and Janitors,	$838.50		
Wearing Apparel,	1,870.33		
Uniform Cloth,	979.16		
Medical,	104.91		
		3,792.90	
Maintenance and Repairs.			
Bicycles and Accessories,	$229.78		
Office Furniture and Equipment,	38.67		
Garage Equipment,	193.14		
Other,	69.75		
Buildings and Grounds, Central Station,	261.15		
		792.49	
Replacements.			
Motor Vehicle,	$1,200.00		
Bicycles and Accessories,	17.00		
Office Equipment,	25.00		
Other,	307.37		
		1,549.37	
			237,300.68
Total Expense,			$295,283.90
Less Refunds,			*108.64*
			$295,175.26
PREMIUM ON BONDS (Schedule 31).			
Miscellaneous Expenses,			$20.40
PRINTING COMMITTEE (Schedule 32).			
Administration.			
Salaries and Wages,		$566.64	
Stationery and Office Supplies,		43.60	
Printing, Binding, etc.,		2,971.56	
Advertising,		4.30	
Other Miscellaneous Expenses and Supplies,		144.23	
			$3,730.33
PUBLIC LIBRARY (Schedule 33).			
Contributions to Libraries,			$78,934.58

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PUBLIC PARKS (Schedule 34).

General Administration.

Salary, Superintendent,		$3,000.00	
Salaries and Wages, Other Employees,		10,638.67	
Stationery and Office Supplies,		34.32	
Printing, Binding, etc.,		102.66	
Communication Service,		140.23	
Heat, Light and Power,		156.00	
Taxes and Water Rents,		29.28	
Vacations and Other Lost Time,		628.35	
			$14,729.51

General Operation.

Automobile Service.

Salaries, Chauffeurs,	$2,546.82		
Operating Supplies,	3,167.70		
Repairs and Replacements,	4,393.16		
Other Expenses,	280.33		
		$10,388.01	

Teaming and Stables.

Wages, Stable Men and Drivers,	$3,835.44		
Forage,	1,852.38		
Other Expenses,	869.36		
		6,557.18	

Drinking Fountains.

Wages, Laborers,	$104.65		
Ice,	312.08		
Other Expenses,	36.37		
		453.10	

Zoological Garden, Forest Park.

Wages,	$4,713.03		
Forage,	5,087.91		
Other Supplies,	599.23		
Other Expenses,	144.63		
		10,544.80	
			27,943.09

Operating, Care and Maintenance, Parks.

Forest Park.

Buildings and Structures,	$2,622.41		
Roadways and Drives,	13,291.93		
Lawns, Gardens and Flowers,	4,126.74		
Pools and Ornamental Fountains,	21.41		
Tennis Courts, Ball and Play Grounds,	995.77		
Other Expenses,	13,907.75		
		$34,966.01	

Van Horn Park.

Buildings and Structures,	$85.01		
Roadways and Drives,	1,691.08		
Lawns, Gardens and Flowers,	1,583.60		
Other Expenses,	89.93		
		3,449.62	
Forward,		$38,415.63	$42,672.60

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Forward,		$38,415.63	$42,672.60
All Other Small Parks.			
Roadways and Drives,	$1,259.43		
Lawns, Gardens and Flowers,	4,540.29		
Other Expenses,	1,481.99		
		7,281.71	
Botanical Division.			
Buildings and Structures,	$5,654.80		
Sidewalks and Foot Paths,	718.64		
Lawns, Gardens and Flowers,	90.93		
		6,464.37	
			52,161.71
Maintenance and Repairs.			
Equipment.			
Office,	$50.85		
Stables,	124.93		
Construction,	319.52		
Zoological,	29.92		
Horticultural,	11.42		
Miscellaneous Expenses,	575.21		
			1,111.85
Replacements.			
Equipment.			
Stables,	$410.49		
Construction,	843.50		
Horticultural,	39.20		
Small Tools,	146.71		
			1,439.90
Division of Recreation and Entertainment.			
Administration.			
Salary, Director,	$1,200.00		
Salaries and Wages, Other Employees,	300.00		
Printing, Binding, etc.,	10.28		
Communication Service,	83.61		
Rents and Privileges,	232.00		
		$1,825.89	
Operation.			
Automobile Service.			
Operating Supplies, $127.60			
Repairs and Replacements, 19.88			
	$147.48		
Playgrounds.			
Salaries, Directors and Assistants, $5,457.52			
Salaries, Caretakers and Janitors, 4,203.92			
Recreational Supplies, 807.23			
Cleaning Supplies, 12.80			
Other Supplies, 50.49			
Other Expenses, 1,150.52			
	11,682.48		
Forward,	$11,829.96	$1,825.89	$97,386.06

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Forward,	$11,829.96	$1,825.89	$97,386.06
Social Centers.			
Salaries, Assistants and Musicians, $1,161.53			
Salaries, Janitors, 873.85			
Miscellaneous Supplies, 44.92			
Miscellaneous Expenses, 644.54			
	2,724.84		
Swimming Pools.			
Salaries and Wages, $1,875.73			
Supplies, 181.59			
Other Expenses, 538.54			
	2,595.86		
Celebrations and Entertainments.			
Independence Day, $25.00			
Band Concerts, 10.00			
Miscellaneous Expenses, 96.70			
	131.70		
		17,282.36	
Maintenance and Repairs.			
Equipment, Recreational,	$6.27		
Equipment, Playgrounds,	727.55		
		733.82	
Replacements.			
Equipment, Recreational,	$28.98		
Equipment, Playgrounds,	12.84		
		41.82	
			19,883.89
Total Expense,			$117,269.95
Less Transfers,			*$29.67*
			$116,940.28
PUBLIC WORKS (Schedule 35).			
Administration.			
Salaries and Wages,		$1,675.50	
Stationery and Office Supplies,		15.64	
Transportation Service,		64.00	
Fees, Commissions and Premiums,		110.00	
Other Miscellaneous Expenses and Supplies,		104.21	
			$1,969.35
REFUNDS (Schedule 36).			
Liquor Licenses,		$41,112.20	
Overcharge on Health Department Bill,		20.58	
Garbage Sales,		27.00	
Sewer Fees,		2,020.19	
Special Assessments.			
Sidewalks,	$48.04		
Street Betterments,	69.46		
		117.50	
Taxes.			
Local,	$12.48		
State,	64.41		
		76.89	
Tuition, School,		279.75	
Gasolene Pump License,		25.00	
			$43,679.11

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Registrars of Voters (Schedule 37).		
Administration.		
Salaries and Wages,	$12,732.44	
Stationery and Office Supplies,	119.20	
Printing, Binding, etc.,	2,258.25	
Advertising,	246.82	
Communication,	72.11	
Transportation Service,	706.78	
Other Miscellaneous Expenses and Supplies,	301.77	
Rents and Privileges,	934.00	
		$17,371.37
Revenues Receivable, Abatement of (Schedule 38).		
Reserve for Abated Bills,		$15,266.36
Schools (Schedule 39).		
General Administration.		
Salaries.		
Superintendent,	$5,000.00	
Assistant Superintendent,	1,000.00	
Secretary of School Committee,	100.00	
Chief Clerk,	2,400.00	
Clerical Assistance,	5,166.12	
Attendance Officers,	4,815.98	
		$18,482.10
Stationery and Office Supplies.		
Rubber stamps,	$10.88	
Typewriter, etc., supplies,	187.67	
Filing supplies,	36.37	
Miscellaneous,	112.21	
		347.13
Printing.		
Annual report and manuals,	$648.97	
Letter heads and envelopes,	108.94	
Binding,	7.75	
Forms,	116.02	
		881.68
Advertising,		92.83
Communication Service.		
Postage,	$599.43	
Telephone,	62.28	
Telegraph,	6.48	
		668.19
Transportation Service.		
Freight and express,		20.85
Other Miscellaneous Supplies and Expenses Not Elsewhere Provided For.		
Auto upkeep,	$250.00	
Magazine subscriptions,	45.40	
Newsboys' badges,	36.36	
Miscellaneous,	22.92	
		354.68
Forward,		$20,847.46

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Forward,		$20,847.46
Traveling Expenses,		374.88
Maintenance and Repairs of Equipment,		3.80
Replacement of Equipment,		150.00
Storehouse.		
Salary—Storekeeper,		950.00
Expenses.		
Assistance,	$519.40	
Telephone,	61.98	
Delivering supplies,	1,728.53	
Miscellaneous,	56.27	
		2,366.18
Total,		$24,692.32

CENTRAL HIGH SCHOOL.

Administration.		
Salary—Principal,		$3,700.00
Salaries—Clerical Assistance,		970.28
Office Supplies,		100.50
Printing,		461.65
Communication Service.		
Postage,	$116.98	
Telephone,	9.90	
		126.88
Transportation Service.		
Freight and express,		1.76
Miscellaneous Supplies and Expenses Not Elsewhere Provided for,		15.00
Traveling Expenses,		75.56
Operation.		
Salaries—Teachers.		
Heads of departments,	$14,630.00	
Teachers,	49,361.82	
		63,991.82
Miscellaneous Assistance.		
Laboratory,	$90.21	
Drawing,	43.18	
Physical training,	172.20	
Office,	72.25	
Piano accompanist,	16.67	
		394.51
Books.		
Text,	$1,790.13	
Reference,	197.72	
Magazine subscriptions,	16.30	
Binding,	93.51	
Covers,	32.41	
		2,130.07
Forward,		$71,968.03

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Forward,.....			$71,968.03
Stationery Supplies.			
Paper.			
White,.....	$203.25		
Manila,.....	313.10		
Drawing,.....	117.42		
Notebooks,.....	335.45		
Envelopes,.....	2.24		
Blotting,.....	8.46		
Pressboard and cardboard,.....	245.78		
Miscellaneous,.....	204.29		
		$1,429.99	
Ink,.....		9.25	
Paste, etc.,.....		.87	
Pencils,.....		91.20	
Pens and holders,.....		56 32	
Thumb tacks and paper fasteners,.....		13.79	
Rubber erasers,.....		14.50	
Rubber bands,.....		6.36	
Miscellaneous,.....		4.70	
			1,626.98
Supplies and Materials Used in Special Courses.			
Physics and Chemistry.			
Small glassware and other small laboratory articles,.....	$101.18		
Chemicals,.....	52.71		
Miscellaneous,.....	124.60		
		$278.49	
Domestic Science.			
Cookery.			
Provisions,..... $104.48			
Miscellaneous,..... 27.14			
	$131.62		
Sewing supplies,.....	33.15		
		164.77	
Physical Training,.....		76.62	
Drawing.			
Paints,.....	$35.70		
Paint pans and brushes,.....	34.83		
Drawing crayons,.....	6.30		
Miscellaneous,.....	134.42		
		211.25	
			731.13
Other Operating Supplies.			
Outline maps,.....		$11.80	
Maps, charts and globes,.....		9.00	
Chalk,.....		21.23	
Paper towels,.....		355.92	
Linen towels,.....		8.25	
Miscellaneous,.....		2.20	
			408.40
Forward,.....			$74,734.54

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Forward,		$74,734.54
Other Operating Expense.		
Graduation expenses,	$156.62	
Tuning and rent of pianos,	71.75	
Miscellaneous,	31.00	
		259.37
Maintenance and Repairs of Equipment.		
Science,	$42.34	
Domestic science,	7.50	
Miscellaneous,	.50	
		50.34
Replacement of Equipment.		
Science,		551.83
Total,		$75,596.08

TECHNICAL HIGH SCHOOL

Administration.		
Salary—Principal,		$3,600.00
Salaries—Clerical Assistance,		1,618.00
Office Supplies,		81.31
Printing,		783.91
Communication Service.		
Postage,	$62.00	
Telephone,	28.50	
		90.50
Transportation Service.		
Freight and express,		20.24
Miscellaneous Supplies and Expenses Not Elsewhere Provided for,		15.00
Traveling Expenses,		24.23
Operation.		
Salaries—Teachers.		
Heads of departments,	$19,539.50	
Teachers,	53,627.67	
		73,167.17
Miscellaneous Assistance.		
Tool Room,	$399.34	
Household science,	8.00	
Drawing,	4.25	
Laboratory,	17.95	
Design,	6.95	
Physical training,	89.04	
Piano accompanist,	16.67	
Miscellaneous,	37.85	
		580.05
Books.		
Text,	$1,398.24	
Reference,	120.17	
Magazine subscriptions,	21.50	
Binding,	105.40	
Covers,	162.97	
Mending materials,	4.50	
		1,812.78
Forward,		$81,793.19

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Forward,			$81,793.19
Stationery Supplies.			
Paper.			
White,	$125.40		
Notebooks,	324.50		
Envelopes,	4.98		
Blotting,	18.75		
Pressboard and cardboard,	5.38		
Miscellaneous,	4.25		
		$483.26	
Ink,		23.01	
Paste, etc.,		2.30	
Pencils,		35.74	
Pens and holders,		46.60	
Thumb tacks and paper fasteners,		38.05	
Rubber erasers,		1.05	
Rubber bands,		4.59	
Miscellaneous,		4.35	
			638.95
Materials and Supplies Used in Special Courses.			
Chemistry and Physics.			
Small glassware and other small laboratory articles,	$166.75		
Chemicals,	97.04		
Miscellaneous,	126.49		
		$390.28	
Drawing.			
Small drawing tools,	$12.53		
Paper, pencils and ink,	617.88		
Miscellaneous,	11.70		
		642.11	
Machine Shop.			
Small tools,	$68.69		
Castings and metals,	239.92		
Miscellaneous,	134.08		
		442.69	
Wood Working.			
Lumber,	$442.55		
Small tools,	51.29		
Miscellaneous,	169.53		
		662.37	
Household Science.			
Provisions,	$236.72		
Miscellaneous,	62.13		
		298.85	
Household Arts.			
Sewing Supplies,	$112.27		
Miscellaneous,	24.61		
		136.88	
Design.			
Small tools,	$75.10		
Miscellaneous,	238.02		
		313.12	
Forward,		$2,886.30	$82,432.14

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Forward,		$2,886.30	$82,432.14
Forging.			
Coal,	$188.00		
Metals,	412.78		
Miscellaneous,	4.64		
		605.37	
Physical Training,		210.66	
			3,702.33
Other Operating Supplies.			
Compasses,		$67.00	
Paper towels,		599.48	
Miscellaneous,		58.19	
			724.67
Other Operating Expenses.			
Graduation expenses,		$139.61	
Firing kiln,		33.12	
Miscellaneous,		48.66	
			221.39
Repairs and Maintenance of Equipment.			
Chemistry and physics,		$87.75	
Machine shop,		19.29	
Wood work,		57.03	
Household arts,		36.00	
Design,		75.00	
Forging,		5.77	
Gymnasium,		11.41	
Miscellaneous,		16.00	
			308.25
Replacement of Equipment.			
Chemistry and physics,		$3.66	
Drawing,		89.92	
Machine shop,		11.27	
Wood work,		27.00	
Gymnasium,		12.66	
Miscellaneous,		89.25	
			233.76
Total,			$87,622.54

EVENING SCHOOL OF TRADES.

Administration.			
Salary—Principal,			$450.00
Salaries—Clerical Assistance,			186.00
Printing,			25.12
Operation.			
Salaries—Teachers,			5,600.00
Miscellaneous Assistance.			
Tool room,		$105.75	
Collecting fees,		20.00	
			125.75
Forward,			$6,386.87

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Forward,.....		$6,386.87
Supplies and Materials Used in Special Courses.		
Machine shop,.....	$78.50	
Electricity,.....	105.38	
Plumbing,.....	124.14	
Wood work,.....	42.78	
Sewing,.....	46.42	
Cookery,.....	64.52	
Design,.....	15.00	
		476.74
Other Operating Supplies,.....		212.00
Other Operating Expenses,.....		95.31
Replacement of Equipment,.....		2.52
Total,.....		$7,173.44

HIGH SCHOOL OF COMMERCE.

Administration.		
Salary—Principal,.....		$3,650.00
Salaries—Clerical Assistance,.....		1,095.15
Stationery and Office Supplies,.....		36.27
Printing,.....		559.24
Communication Service.		
Postage,.....	$30.00	
Telephone,.....	18.93	
		48.93
Transportation Service.		
Freight and express,.....		4.83
Other Miscellaneous Supplies and Expenses Not Elsewhere Provided for,.....		7.00
Traveling Expenses,.....		31.59
Operation.		
Salaries—Teachers.		
Heads of departments,.....	$9,852.50	
Teachers,.....	50,651.17	
		60,503.67
Salaries—Matron,.....		743.00
Salaries—Miscellaneous.		
Moving pictures,.....	$289.25	
Laboratory,.....	9.87	
Physical training,.....	126.39	
Bookkeeping,.....	50.00	
Piano accompanist,.....	16.66	
Miscellaneous,.....	11.95	
		504.12
Books.		
Text,.....	$1,517.84	
Reference,.....	312.40	
Magazine subscriptions,.....	65.13	
Binding,.....	83.81	
Mending materials,.....	18.75	
Covers,.....	79.19	
		2,077.12
Forward,.....		$69,260.92

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Forward,			$69,260.92
Stationery Supplies.			
Paper.			
White,	$850.00		
Manila,	45.00		
Drawing,	29.65		
Bookkeeping,	1,025.34		
Notebooks,	487.19		
Blotting,	28.43		
Typewriting,	519.71		
Pressboard and cardboard,	64.50		
Miscellaneous,	220.64		
		$2,770.46	
Ink,		107.50	
Paste, etc.,		5.90	
Pencils,		115.50	
Pens and holders,		84.50	
Thumb tacks and paper fasteners,		76.57	
Rubber erasers,		7.50	
Rubber bands,		5.40	
Rules,		30.00	
Typewriter ribbons,		81.58	
Miscellaneous,		4.00	
			3,288.91
Supplies and Materials Used in Special Courses.			
Laboratory.			
Small glassware and other small laboratory articles,	$54.89		
Chemicals,	25.85		
Miscellaneous,	34.46		
		$115.20	
Shop.			
Lumber,	$298.52		
Small tools and hardware,	130.87		
Miscellaneous,	51.00		
		480.39	
Cookery.			
Provisions,	$624.98		
Miscellaneous,	56.67		
		681.65	
Sewing,		176.81	
Salesmanship,		46.76	
Physical Training.			
Laundry,	$605.50		
Miscellaneous,	319.59		
		925.09	
			2,425.90
Other Operating Supplies.			
Paper towels,		$324.50	
Outline maps,		70.53	
Miscellaneous,		193.69	
			588.72
Forward,			$75,564.45

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Forward,.....			$75,564.45
Other Operating Expenses.			
Moving Pictures,.....		$520.71	
Graduation Expenses,.....		147.38	
Miscellaneous,.....		6.75	
			674.84
Maintenance and Repairs of Equipment,.....			22.45
Replacement of Equipment.			
Laboratory,.....		$182.60	
Typewriters,.....		2,040.00	
Miscellaneous,.....		31.25	
			2,253.85
Total,.....			$78,515.59

EVENING HIGH SCHOOL.

Administration.			
Salary—Principal,.....			$335.00
Salaries—Clerical Assistance,.....			137.50
Stationery and Office Supplies,.....			3.04
Printing,.....			95.85
Communication Service.			
Postage,.....			18.00
Operation.			
Salaries—Teachers,.....			5,086.50
Books.			
Text,.....		$418.67	
Binding,.....		17.34	
			436.01
Stationery Supplies.			
Paper.			
White,.....	$11.00		
Typewriter,.....	62.18		
Drawing,.....	2.00		
Bookkeeping,.....	10.25		
Notebooks,.....	64.04		
Blotting,.....	1.15		
Pressboard and cardboard,.....	2.15		
Cross section,.....	88.56		
Miscellaneous,.....	57.82		
		$299.15	
Pencils,.....		1.80	
Pens and holders,.....		9.28	
Thumb tacks,.....		.50	
			310.73
Supplies and Materials Used in Special Courses.			
Cookery,.....			8.52
Other Operating Supplies,.....			53.65
Other Operating Expenses.			
Graduation expenses,.....		$36.48	
Drawing models,.....		22.00	
			58.48
Total,.....			$6,543.28

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VOCATIONAL SCHOOL.

Administration.			
Salary—Principal,			$1,824.00
Salaries—Clerical Assistance,			782.00
Stationery and Office Supplies,			9.68
Communication Service.			
Postage,		$49.25	
Telephone,		14.49	
			63.74
Transportation Service.			
Freight and express,			13.74
Operation.			
Salaries—Teachers,			10,218.65
Salaries—Miscellaneous,			47.23
Books.			
Text,		$7.58	
Reference,		4.25	
Magazine subscriptions,		18.75	
			30.58
Stationery Supplies.			
Paper.			
White,	$20.14		
Manila,	9.20		
Drawing,	5.10		
Envelopes,	10.95		
Blotting,	.34		
Miscellaneous,	.35		
		$46.08	
Ink,		3.22	
Paste, etc.,		2.95	
Pencils,		13.83	
Pens and holders,		1.86	
Thumb tacks and paper fasteners,		3.96	
Rubber erasers,		1.44	
			73.34
Materials and Supplies Used in Special Courses.			
Printing.			
Paper and cardboard,	$76.85		
Miscellaneous,	195.87		
		$272.72	
Carpentry.			
Lumber,	$246.25		
Hardware,	59.30		
Miscellaneous,	36.68		
		342.23	
Cabinet.			
Lumber,	$125.77		
Hardware,	57.25		
Miscellaneous,	22.99		
		206.01	
Forward,		$820.96	$13,062.96

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Forward,		$820.96	$13,062.96
Pattern.			
Hardware,	$1.00		
Miscellaneous,	2.19		
		3.19	
Machine Shop.			
Small tools,	$56.19		
Metals and castings,	1,006.87		
Miscellaneous,	201.27		
		1,264.33	
			2,088.48
Other Operating Supplies.			
Paper towels,		$234.80	
Miscellaneous,		24.64	
			259.44
Other Operating Expenses.			
Graduation expenses,		$1.50	
Miscellaneous,		13.47	
			14.97
Maintenance and Repairs of Equipment.			
Printing,		$7.30	
Carpentry,		16.56	
Cabinet,		9.83	
Pattern,		1.67	
Machine shop,		25.78	
Gymnasium,		5.00	
			66.14
Replacement of Equipment.			
Printing,		$155.44	
Carpentry,		8.35	
Cabinet,		4.50	
Pattern,		1.00	
Machine shop,		495.31	
			664.60
Total,			$16,156.59

VOCATIONAL—SPECIAL.

Tuition.	
Smith's Agricultural School of Northampton,	$100.00

VOCATIONAL EVENING SCHOOL.

Salary—Principal,	$36.00
Office Supplies,	.20
Salaries—Teachers,	321.00
Supplies,	60.45
Total,	$417.65

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OPEN-AIR SCHOOL.

Salaries—Teachers,		$2,047.03
Salaries—Matron,		375.00
Books,		18.76
Stationery Supplies.		
Paper,	$21.77	
Miscellaneous,	3.19	
		24.96
Other Operating Supplies.		
Provisions,	$886.03	
Napkins,	9.00	
Miscellaneous,	37.26	
		932.29
Other Operating Expense,		5.92
Total,		$3,403.96

GRADED SCHOOLS.

Administration.		
Salaries.		
Supervisors,	$19,234.50	
Supervising Principals,	43,950.62	
		$63,185.12
Salaries.		
Clerical assistance,		630.00
Stationery and Office Supplies,		49.49
Printing,		1,773.91
Communication Service.		
Telephone,	$1,446.21	
Telegraph,	1.62	
		1,447.83
Transportation Service.		
Freight and express,		13.01
Other Miscellaneous Supplies and Expenses Not Elsewhere Provided for,		27.50
Operation.		
Salaries—Teachers,		395,733.49
Salaries—Matrons,		3,133.80
Salaries—Miscellaneous.		
Industrial work,	$430.95	
Physical training,	21.00	
Care of lunch rooms,	44.00	
		495.95
Transportation of Pupils,		2,545.00
Support of Truants,		545.27
Books.		
Text,	$13,778.30	
Reference,	628.26	
Binding,	390.49	
Mending materials,	65.99	
Covers,	2,077.99	
Writing copies,	172.30	
		17,113.33
Forward,		$486,693.70

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Forward,			$486,693.70
Stationery Supplies.			
Paper.			
White,	$5,797.29		
Manila,	2,231.81		
Drawing,	2,175.53		
Bookkeeping,	241.88		
Notebooks,	997.37		
Envelopes,	372.71		
Blotting,	173.46		
Pressboard and cardboard,	973.15		
Penmanship,	460.10		
Miscellaneous,	695.78		
		$14,119.08	
Ink,		353.29	
Paste, etc.,		207.93	
Pencils,		1,068.04	
Pens and holders,		1,468.70	
Thumb tacks and paper fasteners,		338.44	
Rubber erasers,		97.05	
Rubber bands,		53.45	
Miscellaneous,		138.15	
			17,844.13
Materials and Supplies Used in Special Courses.			
Physical Training.			
Soccer football,	$94.90		
Baseball,	106.31		
Field day,	305.46		
Gymnasium,	50.20		
Phonograph records and dance music,	121.32		
Miscellaneous,	80.99		
		$759.18	
Industrial Work.			
Lumber,	$3,488.77		
Metals,	659.27		
Cement, sand, etc.,	26.08		
Paints, etc.,	573.96		
Hardware,	1,909.54		
First-aid supplies,	5.91		
Printing supplies,	447.08		
Miscellaneous,	940.94		
		8,051.55	
Household Science and Practical Arts.			
Cookery.			
Provisions,	$1,819.58		
Ice,	21.69		
Dishes and cooking utensils,	211.42		
Laundry,	68.27		
Miscellaneous,	1.60		
	$2,122.56		
Sewing,	371.94		
		2,494.50	
Psychological Laboratory,		4.46	
Forward,		$11,309.69	$504,537.83

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Forward,.....		$11,309.69	$504,537.83
Science.			
Chemicals and small glassware,.....	$580.26		
School gardens,.....	126.33		
Miscellaneous,.....	279.08		
		985.67	
Drawing.			
Paints,.....	$679.88		
Paint pans and brushes,.....	101.85		
Drawing crayons,.....	318.80		
Miscellaneous,.....	546.97		
		1,647.50	
			13,942.86
Other Miscellaneous Supplies.			
Kindergarten materials,.....		$95.17	
Outline maps,.....		34.64	
Compasses,.....		96.00	
Rules,.....		107.96	
Maps, charts and globes,.....		82.30	
Blackboard erasers,.....		149.75	
Sponges,.....		514.04	
Chalk,.....		130.57	
Pencil sharpeners,.....		153.92	
Scissors,.....		193.15	
Mats,.....		79.00	
Burlap,.....		73.64	
Paper towels,.....		1,109.13	
Linen towels,.....		290.45	
Hygiene supplies,.....		56.66	
Miscellaneous,.....		627.34	
Open-Air Room.			
Provisions,.....	$287.07		
Labor,.....	81.16		
Miscellaneous,.....	164.03		
		532.26	
			4,325.98
Other Operating Expenses.			
Tuning pianos, etc.,.....		$99.25	
Graduation expenses,.....		55.88	
			155.13
Maintenance and Repairs of Equipment.			
Physical training,.....		$27.50	
Industrial work,.....		102.54	
Household science and practical arts,.....		49.37	
Miscellaneous,.....		6.67	
			186.08
Replacement of Equipment.			
Industrial work,.....		$449.15	
Household science and practical arts,.....		73.50	
Science,.....		27.00	
Miscellaneous,.....		63.16	
			612.81
Total,.....			$523,760.69

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KINDERGARTENS.

Salaries—Teachers,	$32,839.61
Supplies,	523.87
Other Operating Expenses,	77.75
Replacement of Equipment,	78.30
Total,	$33,519.53

ELEMENTARY EVENING SCHOOLS.

Salary—Principal,	$744.00
Salaries—Clerical Assistance,	58.00
Printing,	30.09
Salaries—Teachers,	4,853.00
Books,	15.05
Stationery Supplies,	31.69
Total,	$5,731.83

HIGH SCHOOLS LUNCH.

Salaries.		
Director,	$1,160.00	
Assistant Director,	552.00	
Assistance,	6,647.04	
		$8,359.04
Supplies.		
Provisions,	$22,599.74	
Ice,	149.55	
Cleaning supplies,	253.79	
Napkins,	30.95	
Miscellaneous,	50.98	
		23,085.01
Other Expenses.		
Car fares,	$56.90	
Laundry,	284.95	
Printing,	10.06	
Postage,	9.45	
Telephone,	43.54	
Miscellaneous,	35.46	
		440.36
Maintenance and Repairs of Equipment,		28.72
Replacement of Equipment,		702.25
Total,		$32,615.38
Grand Total,		$895,848.88

SINKING FUND COMMISSIONERS (Schedule 40).

Administration.		
Salary of Treasurer and Clerk,	$400.00	
Rent,	25.00	
Binder,	6.00	
		$431.00

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SMOKE INSPECTOR (Schedule 41).

Operation.		
Salaries and Wages,	$250.00	
Stationery and Office Supplies,	6.00	
Printing, Binding, etc.,	2.89	
Communication Service,	12.07	
Smoke Observation,	51.00	
		$321.96

SOLDIERS' AND SAILORS' BENEFITS (Schedule 42).

Administration.		
Salary of Secretary,	$800.00	
Stationery and Office Supplies,	3.50	
Printing, Binding, etc.,	7.33	
Communication Service,	11.55	
		$822.38
State Aid.		
Contributions to Civil War Veterans,	$12,448.00	
Contributions to Spanish War Veterans,	264.00	
		12,712.00
Military Aid.		
Contribution to Civil War Veterans,		78.00
Burials.		
Soldiers and Widows,	$645.10	
Fees to Burial Agent,	28.00	
		673.10
Soldiers' Relief.		
Contributions,		6,282.64
		$20,568.12

SOLDIERS' AND SAILORS' GRAVES, CARE OF (Schedule 43).

Administration.		
Salary of Supervisor,	$200.00	
Care of Graves,	615.00	
		$815.00

STREETS AND ENGINEERING (Schedule 44).

Completed Work.			
Bridge Construction,		$20,335.81	
Bridge Maintenance.			
Assessable,	$151.34		
City's Proportion,	13,661.96		
		13,813.30	
Collection of Ashes.			
Assessable,	$745.25		
City's Proportion,	113,227.98		
		113,973.23	
Collection of Garbage,		46,874.78	
Forestry Operation.			
Assessable,	$527.43		
City's Proportion,	14,947.07		
		15,474.50	
Forward,		$210,471.62	

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Forward,		$210,471.62
Highways Construction.		
Assessable,	$181.57	
City's Proportion,	181,294.06	
		181,475.63
Highways Maintenance.		
Assessable,	$11,478.16	
City's Proportion,	167,468.62	
		178,946.78
Municipal Automobile,		2,022.29
Non-remunerative Work for other Departments,		8,180.73
Repair Shop,		138.51
Sewers Construction.		
Assessable,	$60.75	
City's Proportion,	47,719.27	
		47,780.02
Sewers Maintenance.		
Assessable,	$7,981.03	
City's Proportion,	24,752.19	
		32,733.22
Sidewalks and Curbing Construction.		
Assessable,	$39,028.01	
City's Proportion,	20,372.43	
		59,400.44
Sidewalks and Curbing Maintenance.		
Assessable,	$1,528.94	
City's Proportion,	3,644.48	
		5,173.42
Stables and Yards.		
Assessable,	$567.63	
City's Proportion,	11,573.31	
		12,140.94
Street Cleaning.		
Assessable,	$131.53	
City's Proportion,	114,360.31	
		114,491.84
Street Lighting,		133,882.02
Street Oiling.		
Assessable,	$505.94	
City's Proportion,	19,940.09	
		20,446.03
Street Sprinkling,		17,086.85
Miscellaneous Expenditures.		
Unpaid Bills, 1916,		67.52
Material from Stores Unaccounted for,		165.51
Adjustments, Overhead Expense, etc.,		1,779.22
Use of Equipment and Plant,		10,743.60
Total Expense,		$1,037,121.19
Less Refunds,		*3,121.35*
		$1,033,999.84

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TAXES OF 1916, RESERVE FOR ABATEMENT OF (Schedule 45).			
Reserved for Abatement,			$8,000.00
TAXES (Schedule 46).			
County Tax,		$176,227.17	
National Bank Tax,		17,821.86	
State Tax,		409,750.00	
			$603,799.03
TAX EXEMPTIONS, SOLDIERS' AND SAILORS' (Schedule 47).			
Payment to Commonwealth,			$2,070.35
WEIGHTS AND MEASURES, SEALER OF (Schedule 48).			
Administration.			
Salary of Sealer,		$525.00	
Stationery and Office Supplies,		17.85	
Printing, Binding, etc.,		57.51	
Advertising,		2.00	
Communication Service,		2.84	
Transportation Service,		247.80	
Other Miscellaneous Expenses and Supplies,		47.06	
			$900.06
Operation.			
Salaries, Deputies and Inspector,		$2,133.34	
Automobile Service.			
Operating Supplies,	$285.62		
Repairs and Replacements,	135.03		
		420.65	
			2,553.99
			$3,454.05
WIRES, INSPECTOR OF (Schedule 49).			
Operation.			
Salary, Inspector,		$350.00	
Other Expenses,		45.26	
			$395.26
Maintenance and Repairs.			
Cable,		$1,097.52	
Other Supplies,		442.81	
			1,540.33
			$1,935.59
WORKMEN'S COMPENSATION (Schedule 50).			
Damages and Compensation,			$1,872.37

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EXPENSE

INCURRED IN YEAR ENDED NOVEMBER 30, 1917.

WATER FUND.

(Schedule J.)

WATER DEPARTMENT.		
Operating Expense.		
Commercial Expense,	$12,686.27	
Distribution Expense,	38,263.94	
General Expense,	31,272.30	
Source of Supply,	38,587.26	
Transmission Expense,	4,847.56	
Undistributed Expense,	9,058.09	
Public Safety Expense,	12,273.61	
		$146,989.03
Miscellaneous Expense.		
Interest on Bonded Indebtedness,	$80,350.00	
Depreciation Charge,	36,000.00	
Reserve for Abated Bills,	1,618.41	
		117,968.41
Cost of Sales (Chargeable to Consumer),		54,068.90
		$319,026.34

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STORES.

Inventory as of November 30, 1917.

(Schedule K.)

General Fund:		
City Property Committee—Schools,	$1,514.48	
Streets and Engineering Department,	42,161.90	
		$43,676.38
Water Fund:		
Water Department,		129,291.44
		$172,967.82

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ESTIMATED REVENUE

For the Fiscal Year Ended November 30, 1917.

	Estimate for Year	Accruals for Year	Excess over Estimate
Additional Taxes, 1916,	$17,805.39	$17,805.39	.....
Business Taxes,	235,000.00	320,448.43	$85,448.43
Fees,	9,000.00	9,238.37	238.37
Fines,	8,500.00	14,619.33	6,119.33
Interest,	35,000.00	31,469.72	*3,530.28*
Licenses,	195,000.00	184,351.78	*10,648.22*
Permits,	50,000.00	41,982.61	*8,017.39*
Privileges,	17,999.27	17,999.27	.....
Rents,	21,000.00	26,418.25	5,418.25
Special Assessments,	107,000.00	82,907.19	*24,092.81*
Subventions and Grants,	8,784.50	.....	*8,784.50*
City Property Committee,	6,000.00	524.42	*5,475.58*
Police Department,	1,500.00	1,669.65	169.65
Fire Department,	1,000.00	2,487.38	1,487.38
Health Department,	20,000.00	24,978.89	4,978.89
Streets and Engineering,	35,000.00	46,884.27	11,884.27
Charities,	25,000.00	37,046.18	12,046.18
Soldiers' and Sailors' Benefits,	15,000.00	14,336.00	*664.00*
Education,	59,000.00	73,728.23	14,728.23
Recreation,	2,500.00	1,785.30	*714.70*
Other Revenues,	28,000.00	29,337.27	1,337.27
Tax Reimbursements from State,	286,993.24	267,561.54	*19,431.70*
Re-Appropriations,	60,016.51	60,016.51	.....
	$1,245,098.91	$1,307,595.98	$62,497.07

NOTE.—Figures in italics indicate amount under estimate.

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SINKING FUNDS.

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REPORT

OF THE

COMMISSIONERS OF THE SINKING FUNDS

SPRINGFIELD, MASS., November 19, 1917.

To His Honor, the Mayor, and the City Council.

GENTLEMEN:—The Commissioners of the Sinking Funds of the City of Springfield have the honor to report the condition of the sinking funds, established to meet indebtedness of the city, and the income accruing to the same for the year ending November 17, 1917, as follows:—

WATER WORKS.

$275,000, 3½ and 4% bonds, 1920 and 1923.

RECEIPTS.

Amount on hand at last report,		$132,719.49	
Surplus balance from the Water Department for 1916, received February 20, 1917,		15,502.88	
Interest on bank balances,		104.05	
Interest on investments,		5,730.00	
Addition of difference between price paid and par value of bonds purchased during the year,		37.20	
		$154,093.62	
Accrued interest paid on bonds—charged off,	$152.24		
Premium paid on bonds—charged off,	204.39		
		356.63	
			$153,736.99

INVESTMENTS.

United States 4% Liberty Loan bonds,	$ 8,000.00	
City of Springfield bonds,	75,000.00	
Municipal bonds,	44,000.00	
Railroad bonds,	26,000.00	
Cash in bank at interest,	736.99	
		$153,736.99

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HIGH SCHOOL LOAN.

(*Closed.*)

Loan $370,000, 4% bonds, January 1, 1897, 20 years.

RECEIPTS.

Amount on hand at last report,.....	$365,703.38	
Interest on bank balances,.....	156.00	
Interest on investments,.....	6,865.30	
		$372,724.68
Paid City Treasurer January 1, 1917, to meet bonds for which the sinking fund was established,.....	$370,000.00	
Balance transferred to School Loans,.....	2,724.68	
		$372,724.68

SCHOOL LOANS.

$968,000 Twenty Year School Loans, maturing as follows:—

$145,000 3% and 3½% bonds, due June 1, 1920.
125,000 3½ % bonds, due Sept. 1, 1921.
55,000 3½% bonds, due Oct. 1, 1922.
40,000 3½% bonds, due Sept. 1, 1923.
396,000 3½% bonds, due Jan. 1, 1925.
207,000 4% bonds, due Nov. 1, 1926.

RECEIPTS.

Amount on hand at last report in School Loans 1900, 1901, 1902, 1903, 1905, and 1906 (combined),.....		$590,445.56	
Appropriations of City Council received November 1, 1917,.....		36,300.00	
Balance remaining from High School Loan, transferred,.....		2,724.68	
Balance remaining from Street, School and Sewer Loan, transferred,.....		1,373.97	
Interest on bank balances,.....		221.88	
Interest on investments,.....		20,863.75	
Addition of difference between price paid and par value of bonds purchased during the year,.....		247.90	
		$652,177.74	
Accrued interest paid on bonds—charged off,.....	$686.21		
Premium paid on bonds—charged off,.....	1,155.56		
		1,841.77	
			$650,335.97

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INVESTMENTS.

United States 4% Liberty Loan bonds,....	$44,000.00	
City of Springfield bonds,.....	368,500.00	
Municipal bonds,.....	153,250.00	
Railroad bonds,.....	82,000.00	
Street Railway bonds,.....	2,500.00	
Cash in bank at interest,.....	85.97	
		$650,335.97

SEWER LOAN, 1900.

Loan $142,000, 3% bonds, June 1, 1900, 30 years.

RECEIPTS.

Amount on hand at last report,.....	$70,074.93	
Appropriation of City Council received November 1, 1917,.....	3,000.00	
Interest on bank balances,.....	168.50	
Interest on investments,.....	2,215.00	
		$75,458.43

INVESTMENTS.

United States 4% Liberty Loan bonds,....	$3,000.00	
City of Springfield bonds,.....	32,000.00	
Municipal bonds,.....	16,000.00	
Railroad bonds,.....	19,000.00	
Street Railway bonds,.....	5,300.00	
Cash in bank at interest,.....	158.43	
		$75,458.43

PUBLIC PARK LOAN, 1903.

Court Square Extension.

Loan $125,000, 3½% bonds, June 1, 1903, 20 years.

RECEIPTS.

Amount on hand at last report,.....		$88,543.15	
Appropriation of City Council received November 1, 1917,.....		4,700.00	
Interest on bank balances,.....		87.25	
Interest on investments,.....		2,830.00	
		$96,160.40	
Accrued interest paid on bonds—charged off,.....	$181.50		
Premium paid on bonds—charged off,.....	554.09		
		735.59	
			$95,424.81

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INVESTMENTS.

United States 4% Liberty Loan bonds,.....	$5,000.00	
City of Springfield bonds,.....	42,000.00	
Municipal bonds,.....	21,000.00	
Railroad bonds,.....	19,000.00	
Street Railway bonds,.....	7,700.00	
Cash in bank at interest,.....	724.81	
		$95,424.81

STREET, SCHOOL AND SEWER LOAN, 1907.

(*Closed.*)

Loan $125,000, 4% bonds, November 1, 1907, 10 years.

RECEIPTS.

Amount on hand at last report,.....	$121,121.60	
Interest on bank balances,.....	452.53	
Interest on investments,.....	4,806.95	
	$126,381.08	
Accrued interest paid on bonds—charged off,.....	7.11	
		$126,373.97
Paid City Treasurer, November 1, 1917, to meet bonds for which the sinking fund was established,.....	$125,000.00	
Balance transferred to School Loans,.....	1,373.97	
		$126,373.97

RECAPITULATION.

REVENUE FROM ALL SOURCES.

Surplus balance from Water Department, received February 20, 1917,.....	$15,502.88
Appropriation of City Council received November 1, 1917,.....	44,000.00
Interest on bank balances,.....	1,190.21
Interest on investments,.....	43,311.00
Addition of difference between price paid and par value of bonds purchased during the year,.....	285.10
Total revenue,.....	$104,289.19
Amount on hand at last report.....	1,368,608.11
	$1,472,897.30

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Amount brought forward,....		$1,472,897.30	
Accrued interest paid on bonds—charged off,.....	$1,027.06		
Premium paid on bonds—charged off,.....	1,914.04		
		2,941.10	$1,469,956.20
Paid City Treasurer January 1, 1917, to meet High School Loan bonds,.....		$370,000	
Paid City Treasurer November 1, 1917, to meet Street, School and Sewer Loan bonds,.....		125,000	
			495,000.00
			$974,956.20

INVESTED AS FOLLOWS:—

United States 4% Liberty Loan bonds,.....	$60,000		
City of Springfield bonds,.....	517,500		
Bonds and notes—Municipal,.....	234,250		
Railroad bonds,.....	146,000		
Street Railway bonds,.....	15,500		
		$973,250.00	
Cash in bank at interest,.....		1,706.20	
			$974,956.20

Respectfully submitted,

ROBERT O. MORRIS,
A. WILLARD DAMON,
Commissioners of the Sinking Funds.

November 16, 1917.

MESSRS. ROBERT O. MORRIS, ANDREW B. WALLACE AND A. WILLARD DAMON, Commissioners of the Sinking Funds, Springfield, Mass.

DEAR SIRS:—I have examined the report of the Treasurer of your Sinking Funds, as rendered for the current fiscal year, and find it correct, with securities in his possession amounting to nine hundred seventy-three thousand, two hundred and fifty dollars ($973,250.00) and cash in bank amounting to one thousand seven hundred and six dollars and twenty cents ($1,706.20), a total of nine hundred seventy-four thousand, nine hundred and fifty-six dollars and twenty cents ($974,956.20).

Very truly yours,

WM. G. McINTYRE, *City Auditor.*

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REPORT OF THE MANAGERS

OF THE

DAVID P. SMITH FUND

FOR THE YEAR ENDING DECEMBER 31, 1917.

To His Honor, the Mayor, and the City Council:—

The managers present herewith their fifth report, which deals with the expenditure of the income from the fund for the past year.

Reference is made to the first report published in the Municipal Register of 1914, for a history of the fund, its purpose and method of distribution.

The treasurer's summary is as follows:—

Balance in fund January 1, 1917,		$209.88
Income received during 1917,		1,328.70
		$1,538.58
Expended for aid of sick children,	$1,080.58	
Union Trust Company for services,	100.00	
		1,180.58
Balance on hand January 1, 1918,		$358.00

Over one hundred and twenty-one children received medical or surgical attention during the past year, such aid being given at a time when physical defects were corrected to save future suffering and prevent the possibility of certain diseases becoming chronic.

Respectfully submitted,

FRANK E. STACY, *Mayor,*
WM. J. QUILTY, *Chief of Police,*
ELIPHALET T. TIFFT, *City Treasurer,*
Managers.

ELIPHALET T. TIFFT,
Treasurer and Secretary.

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CITY TREASURER'S REPORT.

NOVEMBER 30, 1917.

With Certificate of City Auditor Attached.

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CITY TREASURER'S REPORT

CITY OF SPRINGFIELD, MASS.
CITY TREASURER'S OFFICE, December 31, 1917.

To His Honor, the Mayor, and the City Council:—

I have the honor to submit herewith the thirtieth annual report of the City Treasurer, showing the operation and condition of the City Treasury and Sinking Funds; and presenting other information relative to finances of the City of Springfield for the fiscal year ending November 30, 1917.

The total operations of the City Treasury for the fiscal year 1917 are summarized as follows:—

CASH RECEIPTS.		CASH PAYMENTS.	
From Revenue sources,	$7,232,772.12	For Revenue purposes, as per Treasury Warrants,	$7,325,847.14
From Non-Revenue sources,	309,840.49	For Non-Revenue purposes, as per Treasury Warrants,	448,338.85
	$7,542,612.61		$7,774,185.99
Cash balance December 1, 1916,	685,459.73	Cash on hand November 30, 1917,	453,886.35
	$8,228,072.34		$8,228,072.34

The following statement gives more detail in reference to receipts and payments.

REVENUE CASH RECEIPTS.

From Collector:—	
Taxes of 1915,	$437.65
Taxes of 1916,	765,943.98
Taxes of 1917,	2,726,873.72
Taxes paid after abatement,	102.67
Street Watering Taxes of 1916,	8,421.32
Street Watering Taxes of 1917,	28,096.97
Water sales,	443,262.17
Amount carried forward,	$3,973,138.48

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Amount brought forward,	$3,973,138.48	
Water, miscellaneous sales,	56,305.59	
Department bills collected,	243,961.99	
Interest on taxes, bank balances, and department bills,	21,598.75	
Fees, official,	5,822.17	
Licenses, theater, circus, dance, elevator, etc.,	8,389.50	
Licenses granted by Police Commissioners,	5,467.00	
Rentals of school halls,	607.00	
		$4,315,290.48
From Commonwealth of Massachusetts:—		
Corporation tax, balance of 1916,	$27,660.25	
Corporation tax, on account of 1917 (business),	195,048.72	
Corporation tax, on account of 1917 (public service),	57,119.26	
Corporation tax, Springfield Street Railway Company,	21,954.79	
Income tax,	267,561.54	
National Bank tax of 1917,	5,347.85	
Reimbursement of State and Military aid and Soldiers' and Sailors' burials,	14,336.00	
Vocational School, State appropriation,	8,846.90	
		597,875.31
From County Treasurer, Dog fund of 1916 for City Library Association,	$4,934.58	
Premium on $300,000 land and buildings loan bonds, issued November 1, 1917,	3,267.00	
Interest on Treasurer's bank balances and accrued interest on bonds,	9,839.76	
Auditorium rentals,	10,979.00	
Organ rentals,	100.00	
High Schools' Lunch Fund, sale of lunches,	27,852.09	
Licenses collected by City Treasurer:—		
Liquor,	162,841.00	
Liquor, from transfer,	401.20	
Amounts carried forward,	$220,214.63	$4,913,165.79

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Amounts brought forward,	$220,214.63	$4,913,165.79
Sunday sales, Common Victualers and Innholders,	1,515.00	
Milk,	498.00	
Hawkers and pedlers,	125.00	
All others,	12.00	
License Commissioners, recording licenses,	488.00	
City Clerk's official fees,	3,100.46	
Sealer's fees,	700.09	
Water Works, land damages and refunds,	20,030.49	
Sale of land and buildings,	1,002.00	
Sundry departmental receipts, estimated revenue,	16,505.89	
Sundry departmental receipts, refunds,	58,235.57	
Gurdon Bill fund, bequest in will of Gurdon Bill for Park purposes,	5,000.00	
Court Street Extension fund, interest on fund for 1916,	754.65	
Sherman D. Porter fund, interest on fund for 1916,	251.06	
From Park Commissioners, Trust funds:—		
Helen M. Hosley fund,	4,628.13	
Chas. S. Marsh fund,	312.21	
McKinley Monument fund,	618.33	
William H. Smith fund,	614.82	
Commissioners of the Sinking Funds:—		
Funds to meet 4% High School Loan bonds, issued in 1897 and 1898,	370,000.00	
Funds to meet 4% Street, School and Sewer Loan bonds, issued in 1907,	125,000.00	
		829,606.33
Total receipts,		$5,742,772.12
Temporary loans in anticipation of revenue,	$1,490,000.00	
Cash on hand December 1, 1916,	83,829.22	
Temporary transfer from non-revenue cash,	9,245.80	
		1,583,075.02
		$7,325,847.14

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REVENUE CASH PAYMENTS.

Payments as per Treasury Warrants, Nos. 90 and 91 in 1916 and Nos. 1 to 84, inclusive, 1917,		$7,325,847.14

NON-REVENUE CASH RECEIPTS.

Funded Debt:—		
Land and Buildings Loan 1917, 20 year serial 4½% coupon or registered bonds, dated November 1, 1917, payable $15,000 each year 1918 to 1937, inclusive, for the following purposes:—		
Addition to Emery Street storehouse,	$24,000.00	
Addition to Boston Road school,	8,000.00	
Wayfarers' Lodge,	20,000.00	
Washington Street school, land and building,	135,000.00	
Brightwood School building, addition,	113,000.00	
		$300,000.00
From Collector:—		
Hillman Street extension betterments,	$9,828.88	
Collected by Treasurer:—		
Refunds,	11.61	
		9,840.49
Total receipts,		$309,840.49
Cash on hand December 1, 1916,		601,630.51
		$911,471.00

NON-REVENUE CASH PAYMENTS.

Payments as per Treasury Warrants, Nos. 90 and 91 in 1916 and Nos. 1 to 84, inclusive, 1917,	$448,338.85	
Cash on hand November 30, 1917,	453,886.35	
Temporary transfer to revenue cash,	9,245.80	
		$911,471.00

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TEMPORARY LOANS.

Made in Anticipation of Revenue and Paid during the Year.

1917, Feb.	16	$300,000 due November 7, 1917, Springfield Safe Deposit & Trust Co., discounted at,	3.99%
Mar.	30	$200,000 due November 2, 1917, Old Colony Trust Co., Boston, discounted at,	3.43%
April	1	$40,000 due October 30, 1917, Commissioners of the Sinking Funds, Springfield, Mass., discounted at,	3.50%
June	22	$300,000 due November 9, 1917, S. N. Bond & Co., New York, discounted at,	5.06⅔%
July	13	$600,000 due November 12, 1917, Bond & Goodwin, Boston, discounted at,	3.92%
Oct.	1	$50,000 due November 6, 1917, Springfield Institution for Savings, discounted at,	4.50%
		$1,490,000	

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CITY OF SPRINGFIELD, MASS.

DECEMBER 1, 1917

STATEMENT OF THE BONDED DEBT AND SINKING FUNDS

LOANS. NAME AND DESCRIPTION.	Date of Issue.	INTEREST. Rate %	INTEREST. Payable.	PRINCIPAL. When Due.	PRINCIPAL. Outstanding.	Sinking Funds.
City Hall Loan, 1907, Reg	1907	4	J. & J.	July 1, 1908 to July 1, 1927. $9,000 even years, $8,000 odd years.	$85,000.00	
Dwight and Water Streets, Railroad Underpass Loan, Cou	1913	4	May & N.	$14,000 due Nov. 1, 1914 to Nov. 1, 1923. $13,000 due Nov. 1, 1924 to Nov. 1, 1943.	344,000.00	
Dwight and Water Streets, Railroad Underpass Loan, Act of 1913	1915	4	May & N.	Nov. 1, 1916 to Nov. 1, 1935. $10,000 annually.	180,000.00	
Dwight, Willow and Hillman Street Extension	1915	4	May & N.	Nov. 1, 1916 to Nov. 1, 1925. $7,000 annually	56,000.00	
Fire and Police Buildings Loan, Reg	1910	4	A. & O.	Oct. 1, 1911 to Oct. 1, 1930. $17,000 annually	221,000.00	
Fulton Street Loan	1914	4½	May & N.	$20,000 each yr., Nov. 1915 to 1934	340,000.00	
Land and Buildings Loan	1917	4½	May & N.	Nov. 1, 1918 to Nov. 1. 1937 inc. $15,000 annually	300,000.00	
Locust Street Extension, Reg	1911	4	A. & O.	Oct. 1, 1912 to Oct. 1, 1921. $2,000 annually	8,000.00	
Municipal Building Loan, Act of 1909, Cou. or Reg.	1909	3½	May & N.	Nov. 1, 1910 to Nov. 1, 1949. $15,000 annually	480,000.00	
Municipal Building Loan, Act of 1909, Cou. or Reg.	1910	4	May & N.	Nov. 1, 1911 to Nov. 1, 1950. $10,000 annually	330,000.00	
Municipal Building Loan, Act of 1912, Cou. or Reg.	1912	4	May & N.	$14,000 due Nov. 1, 1913 to 1917 inc. and $13,000 Nov. 1, 1918 to 1952 inc	455,000.00	
Municipal Building Loan, Act of 1912	1914	4	May & N.	$5,000 each yr., Nov. 1915 to 1954	185,000.00	
Municipal Loan, Reg	1913	4¼	May & N.	$6,500 due Nov. 1, 1914 and $6,000 Nov. 1, 1915 to Nov. 1, 1918; $5,000, Nov. 1, 1919 to Nov. 1, 1923	31,000.00	
North Street Extension, Reg	1909	4	A. & O.	Oct. 1, 1910 to Oct. 1, 1919. $20,000 annually	40,000.00	
Public Parks, Reg	1908	3½	Jne. & D.	June 1, 1923	125,000.00	$95,424.81
Public Buildings Loan, Reg	1911	4	A. & O.	Oct. 1, 1912 to Oct. 1, 1931. $16,000 annually	224,000.00	
River Front Loan, Reg	1908	4	A. & O.	Oct. 1, 1909 to Oct. 1, 1918. $2,000 annually	2,000.00	
School Bonds 1900, Reg	1900	3½	Jne. & D.	December 1, 1919	20,000.00	
" " 1900, Cou. or Reg	1900	3	Jne. & D.	June 1, 1920	125,000.00	
" " 1901, Reg	1901	3½	Mch. & S.	September 1, 1921	125,000.00	
" " 1902, "	1902	3½	A. & O.	October 1, 1922	55,000.00	650,335.97
" " 1903, Cou. or Reg	1903	3½	M. & S.	September 1, 1923	40,000.00	
" Technical High, Reg	1905-6	3½	J. & J.	January 1, 1925	342,000.00	
" White Street, Reg	1905	3½	J. & J.	January 1, 1925	54,000.00	
" Loan, 1906, Cou. or Reg	1906	4	May & N.	November 1, 1926	207,000.00	

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STATEMENT OF THE BONDED DEBT AND SINKING FUNDS—*Continued.*

LOANS. NAME AND DESCRIPTION.	Date of Issue.	INTEREST. Rate %	INTEREST. Payable.	PRINCIPAL. When Due.	PRINCIPAL. Outstanding.	Sinking Funds.
School Bonds, Commercial High, Cou.	1913	4	May & N.	$25,000 due Nov. 1, 1914 to Nov. 1, 1933.	400,000.00	
" " Commercial High, Cou.	1914	4½	May & N.	$8,000 Nov. 1, 1915 to 1924. / $7,000 Nov. 1, 1925 to 1934.	126,000.00	
" " Commercial High, Cou.	1915	4	May & N.	$18,000 Nov. 1, 1916 to 1925. / $17,000 Nov. 1, 1926 to 1935.	314,000.00	
" " Reg.	1898	3½	J. & J.	July 1, 1899 to 1918. $4,200 annually.	4,200.00	
" " Kensington Avenue, 1908, Reg.	1908	4	A. & O.	Oct. 1, 1909 to Oct. 1, 1928. $5,500 annually.	60,500.00	
" " Lincoln, Reg.	1909	4	A. & O.	Oct. 1, 1910 to Oct. 1, 1929. $5,000 annually.	60,000.00	
" " Reg.	1898	3½	J. & J.	July 1, 1899 to 1918. $4,500 annually.	4,500.00	
" Buckingham, Reg.	1913	4¼	May & N.	$11,000 due Nov. 1, 1914 to Nov. 1, 1933.	176,000.00	
" Reg.	1913	4¼	May & N.	$2,000 due Nov. 1, 1914 to 1932, and $1,500 Nov. 1, 1933.	31,500.00	
" Bonds, 1916, Reg.	1916	4	M. & N.	Nov. 1, 1917 to Nov. 1, 1936. $27,000 annually.	513,000.00	
School and Fire Loan	1914	4½	May & N.	$13,000 Nov. 1915 to 1924. / $12,000 Nov. 1925 to 1934.	211,000.00	
Sewer Bonds, Cou. or Reg.	1900	3	Jne. & D.	June 1, 1930.	142,000.00	75,458.43
" " 1901, Reg.	1901	3½	Mch. & S.	Sept. 1, 1902 to 1926. $1,000 annually.	9,000.00	
" Loan, 1904, "	1904	3½	F. & A.	Aug. 1, 1905 to 1924. $2,000 annually.	14,000.00	
" " 1908, "	1908	4	A. & O.	Oct. 1, 1909 to Oct. 1, 1928. $2,500 annually.	27,500.00	
" " Reg.	1913	4	May & N.	$2,000 due Nov. 1, 1914 to Nov. 1, 1938.	42,000.00	
Water Street Extension and Rifle Range, 1908, Reg.	1908	4	A. & O.	Oct. 1, 1909 to Oct. 1, 1918. $5,000 annually.	5,000.00	
Water Bonds. Coupon	1890	3½	A. & O.	October 1, 1920.	125,000.00	153,736.99
" "	1893	4	A. & O.	October 1, 1923.	150,000.00	
" " Little River, Cou. or Reg.	1907	4	J. & J.	Jan. 1, 1910 to Jan. 1, 1936. $10,000 annually.	190,000.00	
" " Little River, Cou. or Reg.	1908	4	J. & J.	Jan. 1, 1911 to Jan. 1, 1937. $10,000 annually.	200,000.00	
" " Little River, Cou. or Reg.	1909	3½	J. & J.	Jan. 1, 1912 to Jan. 1, 1938. $40,000 annually.	840,000.00	
" " Little River, Cou. or Reg.	1910	3½	J. & J.	Jan. 1, 1913 to Jan. 1, 1939. $14,000 annually.	308,000.00	
" " Little River, Cou. or Reg.	1913	4¼	May & N.	$10,000 due Nov. 1, 1914 to Nov. 1, 1938.	210,000.00	
" " Little River, Cou. or Reg.	1916	3½	M. & N.	Nov. 1, 1917 to Nov. 1, 1936. $5,000 annually.	95,000.00	
Totals					$8,632,200.00	$974,956.20

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STATEMENT OF BONDED DEBT AND SINKING FUNDS, 1917.

SHOWING DEBT AND SINKING FUNDS AT BEGINNING AND CLOSE OF FISCAL YEAR, AND ALL TRANSACTIONS DURING THAT PERIOD.

	Total Debt.	Divisions of Total Indebtedness.			Net Debt.	Net Debt Exclusive of Water Debt.	Net Debt Within Limit.	Net Water Debt.	Sinking Funds.	
		Debt Within Limit.	Debt Outside Limit.	Water Debt.					General Sinking Fund	Water Sinking Fund
December 1, 1916.....	$9,222,400.00	$4,969,400.00	$2,046,000.00	$2,207,000.00	$7,853,791.89	$5,779,511.38	$3,733,511.38	$2,074,280.51	$1,235,888.62	$132,719.49
Bonds paid in 1917 including $495,000.00 from Sinking Fund.....	890,200.00	731,200.00	70,000.00	89,000.00	.....	.....	.....	.....	.....	.....
Bonds issued in 1917.....	300,000.00	300,000.00	.....	.....	.....	.....	.....	.....	.....	.....
Appropriations for General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	44,000.00	.....
Surplus in Water Dept., 1916, available for Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15,502.88
Earnings in General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	36,330.59	.....
Earnings in Water Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,514.62
Decrease in General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	414,669.41	.....
Increase in Water Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21,017.50
Decrease in Total and Net City Debt.....	590,200.00	.....	.....	.....	196,548.09	.....	.....	.....	.....	.....
Decrease in Debt Within Limit and Net Debt Within Limit.....	.....	431,200.00	.....	.....	.....	.....	16,530.59	.....	.....	.....
Decrease in Total Net Water Debt.....	.....	.....	.....	89,000.00	.....	.....	.....	110,017.50	.....	.....
Decrease in Debt Outside Limit.....	.....	.....	70,000.00	.....	.....	.....	.....	.....	.....	.....
Decrease of Net Debt Exclusive of Water Debt....	.....	.....	.....	.....	.....	86,530.59	.....	.....	.....	.....
Bonds paid from General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	495,000.00	.....
November 30, 1917.....	$8,632,200.00	$4,538,200.00	$1,976,000.00	$2,118,000.00	$7,657,243.80	$5,692,980.79	$3,716,980.79	$1,964,263.01	$821,219.21	$153,736.99

Outstanding Bonds secured by Sinking Funds, $1,510,000.00.
Outstanding Serial Bonds.....7,122,200.00.
Total City Debt.....$8,632,200.00.

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PURPOSES FOR WHICH OUTSTANDING BONDED DEBT WAS CREATED.

Water Works (exempt),			$2,118,000.00
Schoolhouses:—			
Technical High,	$456,000.00		
High School of Commerce,	840,000.00		
Other Schools,	1,866,400.00		
		$3,162,400.00	
Dwight and Water Streets railroad underpasses (exempt),		524,000.00	
Dwight-Willow and Hillman street extensions,		56,000.00	
Emery street storehouse (addition),		24,000.00	
Fire department buildings,		100,345.00	
Fire and Police headquarters,		221,000.00	
Fulton street widening,		340,000.00	
Health department hospital,		12,600.00	
Locust street extension,		8,000.00	
Laundry and heating plant, almshouse,		24,555.00	
Municipal heating plant,		54,600.00	
Municipal group buildings (exempt),		1,450,000.00	
Municipal group, land,		85,000.00	
North street extension,		40,000.00	
Parks and buildings,		150,200.00	
River front (exempt),		2,000.00	
Sewers,		234,500.00	
Wayfarers' lodge,		20,000.00	
Water street extension,		5,000.00	
Debt exclusive of water debt,			6,514,200.00
Total debt,			$8,632,200.00

The above bonded debt is issued at the following rates of interest:—

$267,000.00 at 3 per cent. per annum.
2,640,700.00 at 3½ per cent. per annum.
4,299,000.00 at 4 per cent. per annum.
448,500.00 at 4¼ per cent. per annum.
977,000.00 at 4½ per cent. per annum.

Total, $8,632,200.00 at an average interest rate of 3.885 per cent. per annum.

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AMOUNT OF DEBT CITY CAN INCUR WITHIN STATUTORY LIMIT.

2½ per cent. of $193,881,373, average valuation for three preceding years,		$4,847,034.00
Bonded debt other than water debt,	$6,514,200.00	
Less debt exempted by special acts of the legislature,	1,976,000.00	
	$4,538,200.00	
Less general sinking funds,	821,219.00	
		3,716,981.00
Debt city can incur in 1918,		$1,130,053.00

The funded debt maturing in 1918 totals $405,700. Of this amount $89,000 is Water Debt, which will be paid by receipts of the Water Department, and $316,700 serial bonds for sundry purposes, that will have to be appropriated for and paid from the tax levy.

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The following table compiled from previous reports, compares the appropriations, funded water debt, funded debt other than water, sinking funds, tax rate, and the assessors' valuation of real and personal property from the year 1890 to 1917 inclusive:—

Year.	Appropriations.	Water Debt.	Other Debt.	Sinking Funds.	Tax Rate.	Assessors' Valuation, Real and Personal.
1890	$507,450	$1,325,000	$124,000		$12.40	$44,493,633
1891	574,425	1,325,000	214,000	$22,734	12.50	48,329,634
1892	609,715	1,325,000	275,000	45,259	13.00	50,780,987
1893	664,050	1,675,000	263,000	75,202	12.80	55,239,919
1894	664,000	1,650,000	280,000	112,207	12.00	56,449,425
1895	732,300	1,625,000	319,500	192,297	12.20	59,033,141
1896	801,100	1,600,000	339,000	254,340	12.80	61,416,091
1897	872,300	1,575,000	783,500	357,471	13.00	64,898,379
1898	909,650	1,550,000	997,000	411,855	13.80	65,699,713
1899	978,175	1,525,000	968,800	506,654	13.60	69,869,847
1900	1,030,000	1,500,000	1,227,100	595,282	13.80	72,358,481
1901	1,075,500	1,475,000	1,379,900	711,033	14.00	74,338,927
1902	1,130,650	1,450,000	1,362,700	794,876	14.50	74,838,065
1903	1,170,000	875,000	1,480,500	296,461	14.60	77,207,898
1904	1,230,000	835,000	1,573,300	397,141	14.60	78,868,058
1905	1,270,000	595,000	1,809,100	384,424	15.40	80,904,476
1906	1,310,000	555,000	1,987,900	435,448	15.00	86,505,181
1907	1,360,000	785,000	2,059,700	504,805	15.00	92,378,624
1908	1,510,450	1,015,000	2,377,500	591,028	15.50	97,098,308
1909	1,614,800	2,095,000	3,230,300	714,592	14.80	107,875,780
1910	1,830,420	2,463,000	3,882,100	842,991	15.80	118,457,151
1911	2,039,381	2,443,000	4,107,900	968,067	16.50	127,249,343
1912	3,016,543	2,383,000	4,503,700	1,085,186	15.50	151,384,317
1913	3,400,279	2,359,000	5,626,500	1,017,128	15.80	169,743,933
1914	3,555,308	2,275,000	6,422,800	1,148,471	16.50	178,296,823
1915	3,807,803	2,191,000	6,759,600	1,246,389	18.20	188,941,408
1916	4,178,348	2,207,000	7,015,400	1,368,608	17.80	197,915,182
1917	4,318,797	2,118,000	6,514,200	821,219	17.80	*196,330,620

* Reduced by returning part of valuation to State.

Respectfully submitted,

ELIPHALET T. TIFFT,
City Treasurer.

I hereby certify that I have examined, in detail, the foregoing abstracts from the accounts of the City Treasurer; that the receipts from various sources, as stated, are correct; that all expenditures are supported by warrants regularly approved by the proper officials, and that the condition of various accounts—including cash on hand and in banks—on November 30, 1917, has been verified by comparison with the records of this office.

WM. G. McINTYRE,
City Auditor.

SPRINGFIELD, MASS., December 26, 1917.

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CITY ORDINANCES FOR 1917.

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CITY OF SPRINGFIELD.

ORDINANCES OF 1917

CHAPTER I.

AN ORDINANCE

PROVIDING FOR THE ADVANCE OF MONEY BY THE CITY TREASURER TO THE DEPARTMENT OF CHARITIES FOR NECESSARY EXPENSES.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 4 of Chapter 10 of the Revised Ordinances as amended by Chapter 1 of the Ordinances of 1907, by Chapter 10 of the Ordinances of 1914, and by Chapters 2, 3, and 6 of the Ordinances of 1915, is hereby further amended by striking out the words, "eight hundred," and substituting therefor the words, "twelve hundred," so that said section as amended shall read as follows:—

SECTION 4. The City Treasurer shall pay over to the Overseers of the Poor, as soon after the thirtieth day of November in each year as said Overseers may desire, the sum of twelve hundred dollars. The same shall be paid on the written request of said Overseers, and the written order of the mayor, and be charged to the appropriation for the Department of Charities. Said money shall be kept by said Overseers apart from any money of their own and as the money of the city, and shall be used only for such traveling and other necessary expenses as may be called for by any emergency which must be met at once and without the delay incidental to the approval and payment of bills as provided by ordinance. Whenever any expense shall have been paid out of said fund, the bill therefor shall be approved and paid by the Treasurer to said Overseers, to be placed to the credit of said fund and to become a part thereof to make good the amount used by them. Said board shall, annually, prior to the thirtieth day of November, pay over to the said Treasurer said sum of twelve hundred dollars and the same shall be placed to the credit of said Department of Charities.

Approved January 29, 1917.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER II.

AN ORDINANCE

ESTABLISHING THE COMPENSATION, SALARIES OR WAGES, OF CERTAIN MEMBERS OF THE POLICE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The compensation, salaries or wages, of certain members of the Police Department are hereby established as follows, to date from April 1, 1917:—

Captains, seventeen hundred dollars ($1,700) per annum.

Inspectors, fifteen hundred dollars ($1,500) per annum.

Lieutenants, fifteen hundred dollars ($1,500) per annum.

Sergeants, fourteen hundred dollars ($1,400) per annum.

Patrolmen, Grade A, three dollars, fifty-six cents ($3.56) per diem.

Patrolmen, Grade B, three dollars, twenty-eight cents ($3.28) per diem.

Patrolmen, Grade C, three dollars ($3.00) per diem.

Reservemen, two dollars, seventy-five cents ($2.75) per diem.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved June 19, 1917.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER III.

AN ORDINANCE

ESTABLISHING THE SALARIES OF THE SUPERINTENDENT OF THE SEWERS DIVISION OF THE DEPARTMENT OF STREETS AND ENGINEERING, THE CITY PHYSICIAN, THE DEPUTY SEALER OF WEIGHTS AND MEASURES AND THE BOARD OF ASSESSORS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the superintendent of the sewers division of the department of streets and engineering, the city physician, the deputy sealer of weights and measures and the board of assessors are hereby established as follows, to date from April 1, 1917:—

Superintendent of the sewers division of the department of streets and engineering, twenty-two hundred dollars ($2,200) per annum.

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City physician, two thousand dollars ($2,000) per annum.

Deputy sealer of weights and measures, eleven hundred dollars ($1,100) per annum.

Board of assessors, twenty-five hundred dollars ($2,500) each per annum.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved June 19, 1917.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER IV.

AN ORDINANCE

ESTABLISHING THE PAY OF CERTAIN MEMBERS OF THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The pay of certain members of the Fire Department is hereby established as follows, to date from April 1, 1917:—

Engineers, three dollars and seventy-five cents ($3.75) per diem.

Hosemen and Laddermen, Grade A, three dollars and fifty-six cents ($3.56) per diem.

Hosemen and Laddermen, Grade B, three dollars and twenty-eight cents ($3.28) per diem.

Hosemen and Laddermen, Grade C, three dollars ($3.00) per diem.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved June 19, 1917.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER V.

AN ORDINANCE

AUTHORIZING EXPENDITURES BY THE CHIEF OF POLICE.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 14 of chapter 33 of the revised ordinances as amended by chapter 2 of the ordinances of 1914 is hereby further amended by striking out the words "four hundred dollars" and substituting there-

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for the words "six hundred dollars," so that said section as amended shall read as follows:—

SECTION 14. The city treasurer shall pay over to the chief of police annually as said chief of police shall request, the sum of six hundred dollars, the same to be paid on the written request of said chief of police and the written order of the mayor, and charged to the appropriation for the police department for the then current fiscal year. Said money shall be kept by said chief of police apart from his own funds, and as money belonging to the city, and shall be used by him only for the payment of such traveling and other necessary expenses as any emergency may call for, and which must be met at once and without delay incidental to the approval and payment of bills as provided by ordinance. Whenever any bill or expense shall have been paid out of said fund, such bill or expense shall be approved and be paid by the treasurer, in conformity with the existing ordinances, the same as if it had not been paid as aforesaid; and the amount thereof paid by said treasurer shall be paid to said chief of police and placed by him to the credit of and shall become a part of said fund to make good the deficiency caused by said use thereof. Said chief of police shall, annually, account for and pay over to said treasurer said sum of six hundred dollars, the same to be placed to the credit of said department.

Approved June 19, 1917. Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VI.

AN ORDINANCE

ESTABLISHING THE PAY OF CERTAIN MEMBERS OF THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The pay of certain members of the Fire Department is hereby established as follows, to date from May 1, 1917:—

District Chiefs, two thousand dollars ($2,000) per annum.

Captains, seventeen hundred dollars ($1,700) per annum.

Lieutenants, fifteen hundred dollars ($1,500) per annum.

Superintendent of Repairs, seventeen hundred dollars ($1,700) per annum.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved July 17, 1917.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER VII.

AN ORDINANCE

CREATING THE COMMITTEE ON PUBLIC SAFETY OF THE CITY OF SPRINGFIELD.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. There is hereby created a committee to be called the committee on public safety of the city of Springfield, to consist of five citizens of the city. As soon after the passage hereof as is practical the mayor shall appoint the members of such committee, with the approval of the city council, to hold office during the continuance of the existing state of war between the United States and any foreign country and for the period of one year thereafter. Members of said committee may be removed at any time by the mayor. Vacancies in the membership of said committee shall be filled by appointment of the mayor with the approval of the city council to fill any unexpired terms.

SECTION 2. The members of such committee shall serve without pay. Such committee may make rules for the holding of its meetings and the conduct of its business. The mayor shall designate one of the members of said committee to be chairman thereof. The mayor, ex officio, shall be president of said committee and shall appoint the members of such auxiliary committees as said committee on public safety may from time to time establish.

SECTION 3. It shall be the duty of such committee to disburse in such amounts and at such times as it shall deem advisable such sums of money as the city council may from time to time appropriate to conserve health and to protect persons and property; to establish, maintain and equip training fields; to purchase military equipment and supplies; and for the purpose of conserving the food supply, to do such things as said committee may deem necessary to assist in the raising and distribution of food products.

Approved August 6, 1917.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER VIII.

AN ORDINANCE

AMENDING CHAPTER 7 OF THE ORDINANCES OF 1916, BEING "AN ORDINANCE RELATIVE TO THE LICENSING AND REGULATING OF CERTAIN MOTOR VEHICLES" AND APPROVED OCTOBER 23, 1916.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 5 of chapter 7 of the ordinances of 1916 is hereby amended by striking out the whole of said section and substituting therefor the following:—

SECTION 5. Persons, firms and corporations making applications for such license to operate such vehicles shall designate the route or routes over which they shall desire to operate and with the approval of said commission such route or routes shall be granted. Such route or routes may be changed only with the consent and approval of said commission. Termini of such routes shall be fixed and motor vehicles so licensed shall be driven to such termini before turning around provided nevertheless that no such route shall terminate on Main street between Franklin street on the north and Park street on the south.

SECTION 2. Section 7 of chapter 7 of the ordinances of 1916 is hereby amended by striking out the whole of said section and substituting therefor the following:—

SECTION 7. The fees for such licenses shall be five dollars for every motor vehicle so licensed.

SECTION 3. Section 8 of chapter 7 of the ordinances of 1916 is hereby amended by inserting after the word "dash" the words "or windshield" so that said section as amended shall read as follows:—

SECTION 8. The said commission shall issue to the licensee a metal plate bearing the words "Licensed motor vehicle No.——, Springfield 19——, —— passengers" setting forth the serial number of the license, the date and the number of passengers exclusive of the operator that the car is licensed to carry. Said plate shall be attached to and kept on the dash or windshield of the motor vehicle in such a position as to be visible to the occupants thereof.

SECTION 4. Section 9 of chapter 7 of the ordinances of 1916 is hereby amended by inserting after the words "and weight" the words "color of hair, color of eyes and race" so that said section as amended shall read as follows:—

SECTION 9. No person shall operate any such motor vehicle so licensed within the city of Springfield unless he shall be twenty years of age or

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older and unless he shall have first obtained a license so to do from the police commission, which license shall state the name, age, height, and weight, color of hair, color of eyes and race of the licensee, his home address and the name of his employer if he operates such car as an employee. The application for such license shall be on a blank furnished by said commission, and the form of the application and the kinds of information to be furnished therein by the applicant shall be such as from time to time may be prescribed by said commission, and said commission may require that the truth of the allegations in such application shall be sworn to before an officer authorized to administer oaths. The said commission shall not grant such a license to any applicant who has not demonstrated to the satisfaction of said commission his ability to drive the vehicle proposed to be operated by him. Such licenses shall be signed by the police commission, shall be numbered in regular order as granted, shall be recorded in the office thereof and shall expire on the first day of May next succeeding the date thereof. The fee for such license shall be one dollar.

SECTION 5. Section 11 of chapter 7 of the ordinances of 1916 is hereby amended by inserting after the words "a sign thereon" the words "in form approved by said commission" and by striking out the comma after the words "termini of the route" and inserting in place thereof the word "and" and by striking out the words "and the license number of the vehicle" so that said section as amended shall read as follows:—

SECTION 11. No motor vehicle so licensed shall be operated without having a sign thereon in form approved by said commission stating the main street or streets of the route, the termini of the route and the fare to be charged which sign shall be so placed near the lower part of the windshield or on the dash or hood of the vehicle as to be plainly visible to persons on the street in front of the vehicle. The letters and figures on such sign shall be not less than two and one half inches in height and shall have a stroke of not less than one quarter inch in width. No other sign of any kind except the owner's name or symbol shall be placed or carried on any such vehicle.

SECTION 6. Section 13 of chapter 7 of the ordinances of 1916 is hereby amended by striking out the words "for each and every passenger the licensee is authorized to carry in said vehicle" so that said section as amended shall read as follows:—

SECTION 13. A license shall not be issued until the license fee has been paid to the city treasurer nor until he has received a bond approved by him payable to him as such treasurer in the sum of one thousand dollars signed by the licensee as principal and a corporation as surety which shall

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have complied with all the provisions of law as to transacting the business of a guarantee, fidelity and surety company within this commonwealth, or such other sureties as shall be approved by the city treasurer, who shall be jointly and severally liable, conditioned to pay any final judgment obtained against the principal named in the bond for any injury to person or property, or damage for causing the death of any person, by reason of any negligent or unlawful act on the part of the principal named in said bond, his or its agents, employees or drivers, in the use or operation of the vehicle so licensed. In case the surety on any such bond is an individual his execution thereof shall be acknowledged before an officer duly authorized to take acknowledgments.

SECTION 7. Section 20 of chapter 7 of the ordinances of 1916 is hereby amended by striking out the words "on the westerly side of Main street within the section thereof bounded by the south side of Worthington street, and the north side of Fort street; nor on any street within thirty-five feet of any place designated by a white post or in other manner for receiving or discharging passengers by any street railway; nor" so that said section as amended shall read as follows:—

SECTION 20. No motor vehicle so licensed shall be stopped to take on or to discharge passengers at any place on any street except at the curb; nor shall any passenger be permitted to enter or leave the vehicle except from the side thereof nearest the curb, but this latter provision shall not apply to a passenger on a front seat where the operator's seat is on the side of the curb.

SECTION 8. Section 21 of chapter 7 of the ordinances of 1916 is hereby amended by striking out the word "Carew" and substituting in place thereof the word "Franklin" and by striking out the word "Locust" and substituting in place thereof the word "Park" so that said section as amended shall read as follows:—

SECTION 21. No motor vehicle so licensed shall be turned around on Main street between Franklin street on the north and Park street on the south.

SECTION 9. Section 22 of chapter 7 of the ordinances of 1916 is hereby repealed.

SECTION 10. Section 26 of chapter 7 of the ordinances of 1916 is hereby amended by striking out the words "rain or snow" at the end thereof and substituting therefor the words "the weather" so that said section as amended shall read as follows:—

SECTION 26. No person operating a motor vehicle so licensed shall place or maintain or permit to be placed or maintained on such vehicle

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any curtain or other obstruction in such a way as to interfere with a view of the interior of such vehicle except when it may become necessary so to do to protect passengers from the weather.

SECTION 11. Section 27 of chapter 7 of the ordinances of 1916 is hereby amended by inserting after the words "No passenger" at the beginning thereof the words "except by special contract" so that said section as amended shall read as follows:—

SECTION 27. No passenger except by special contract shall be charged more than five cents for being carried in any motor vehicle so licensed between any two points in the city within the circle with a radius of two and one half miles from Court square; nor shall any passenger be charged or required to pay a greater fare than that set forth on the sign required hereby, or charged or required to pay for any piece of hand baggage more than the amount of the fare charged for the transportation of the passenger, but no charge shall be made for hand baggage which shall be held by the passenger without inconvenience to other passengers.

SECTION 12. Section 29 of chapter 7 of the ordinances of 1916 is hereby amended by striking out the words "five dollars" in the sixth line thereof and substituting in place thereof the words "one dollar" so that said section as amended shall read as follows:—

SECTION 29. Whenever in the judgment of the police commission public convenience and necessity so require the commission may grant and issue such licenses for such motor vehicles for terms of one or more weeks. The terms of such licenses shall be stated therein. The fees for such licenses shall be at the rate of one dollar for each week of the term thereof. All of the provisions of this ordinance shall apply to such licenses except as otherwise provided in this section.

SECTION 13. Every provision of every regulation of chapter 7 of the ordinances of 1916, being "An Ordinance Relative to the Licensing and Regulating of Certain Motor Vehicles" and approved October 23, 1916, as hereby amended, is intended to be separable so far as possible, and if any special requirement or provision therein, although intended to be reasonable, should be adjudged to be invalid, it is not intended that the same shall affect the validity of any other provision or provisions therein, and it is intended that every general provision referring to or involving other provisions therein shall apply only to all such other provisions as are valid.

SECTION 14. This ordinance shall take effect five days after its passage.

Approved, August 21, 1917.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER IX.

AN ORDINANCE

Relative to the Police Department.

Be it ordained by the City Council of the City of Springfield, as follows:—

Section 1. The police commission shall hereafter be called the board of police commissioners and shall consist of three persons appointed as hereinafter provided. The persons now acting as members of the police commission shall constitute such board of police commissioners and shall hold office as such for the balance of the terms for which they were respectively appointed. Annually hereafter, in the month of April, the mayor shall appoint, subject to confirmation by the board of aldermen, a citizen and resident of the city to be a member of said board of police commissioners for the term of three years from the succeeding first Monday of May and until his successor shall be appointed and confirmed. In all appointments to said board the political affiliation of the appointee shall be considered with a view to so constituting the board that not more than two of the members shall be of the same political party. No person shall become a member of such board who has not been a resident of the city for at least the three years next prior to his appointment, who is a member of the city council, who holds any political office for which he receives compensation, or who is, or for any time during the three years next preceding his appointment has been, either directly or indirectly engaged or interested in the manufacture or sale of intoxicating liquor. Removal from Springfield, membership in the city council, the holding of any such public office or engaging or becoming interested either directly or indirectly in the manufacture or sale of intoxicating liquor shall cause a commissioner's office to become vacant. A commissioner may be removed by the mayor after due hearing subject to the approval of the board of aldermen. Vacancies in said board shall be filled in the manner hereinbefore provided within thirty days from their occurrence. The members of such board shall serve without compensation.

Section 2. The board may make rules for its government. They shall choose one of their members to be their chairman and by rule may prescribe the length of his term.

Section 3. The powers and duties vested in the mayor and aldermen and the city council by chapter 244 of the acts of 1909 shall be exercised and performed by said board of police commissioners. The said board shall, subject to the provisions hereof, have the appointment, manage-

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ment, and control of the members and employees of the police department and of the superintendent of the police signal system.

The said board shall make such lawful rules for the maintenance of said department, including the regulation, government and discipline of such members and employees, and for the direction and control of those having charge of such signal system including employees thereof as it deems wise and proper. The said board shall be responsible for, and have the charge and care of all property belonging to the police department and shall properly maintain the same by necessary expenditures from the funds available for the use of said department. The said board shall have the power to purchase and obtain property necessary for the department, and to dispose of or sell such of the department's property as it may deem necessary, but no purchase, sale or disposition of such property to an amount exceeding five hundred dollars at any one time or for any one purpose shall be made without authority of the city council therefor. Moneys derived from the sale or disposition of property shall be paid forthwith to the city treasurer. The board shall seasonably approve all bills, including pay rolls, lawfully contracted by the department, and certify them to the city auditor. The said board shall have the power to examine into absences of members and employees of the department other than that allowed by law or ordinance and may approve or disapprove the payments of salary to them for the time of such absences.

SECTION 4. The said board shall meet at least once a month and shall annually in the month of January prepare and communicate to the mayor an estimate of the amount of money necessary for the maintenance and use of the department for the then current fiscal year, itemized as shall be desired by the mayor. The said board shall keep or cause to be kept an accurate and detailed account of all expenditures of said department, and annually, in the month of December shall render to the city council an itemized and exact account of the same.

SECTION 5. The police department of the city of Springfield shall consist of the aforesaid board of police commissioners, one chief of police, one deputy chief of police, and as many watchmen as the city council may authorize from time to time (all of whom shall be also police officers), as many reserve policemen up to the number allowed by the rules of the civil service, and as many policemen, as in the opinion of the said board of police commissioners shall be necessary.

SECTION 6. The grade and rank of the members of the department below the board of police commissioners shall be as follows: chief; deputy chief; captain of detectives; captain; detective lieutenant; lieutenant;

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detective sergeant; sergeant; patrolman grade A; patrolman grade B; patrolman grade C; reserve policeman; special policeman.

SECTION 7. There shall be one captain of detectives, three captains, ten detective lieutenants, two lieutenants and twelve sergeants all of whom shall be watchmen. The board of police commissioners shall have authority to increase the number of detective lieutenants, lieutenants, detective sergeants and sergeants whenever in their judgment the service may require it except that the total number of watchmen shall not be thereby increased.

SECTION 8. The chief shall have precedence over all members and employees of the department below the grade of chief, and the said members and employees shall at all times be subject to his command and control. He shall subject to the rules and regulations of the board of police commissioners, from time to time, issue orders consistent with the laws of the commonwealth and the ordinances of the city as may be necessary for the maintenance of proper discipline in the department, for the detail and duties of its members and employees, and for the use and disposition of its equipment.

SECTION 9. The chief of police may suspend from duty for cause, upon written charges specifically stated, any member or employee of the department, provided, that whenever he shall so suspend any such member or employee he shall forthwith report the fact and the specific cause thereof to the board of police commissioners in writing. Such board shall forthwith proceed to investigate said charges and within two weeks shall render its decision and, if charges are sustained, impose a penalty.

The said board may, except as otherwise provided in chapter 19 of the Revised Laws, penalize any member or employee of the department by reprimand, the performance of extra duty without pay, fine, suspension with loss of pay, reduction in rank or grade, or dismissal.

SECTION 10. The order of precedence among members of the department below the grade of chief shall be deputy chief, detective captain, captain, detective lieutenant, lieutenant, detective sergeant and sergeant and among the members of the same rank the order of precedence shall be in the order of seniority of appointment to the rank. All members and employees of the department shall at all times be subject to the command of the ranking officer present.

SECTION 11. The chief of police and the deputy chief of police, before entering upon the duties of their respective offices, shall give a bond for the faithful performance thereof, the chief of police in the sum of two thousand dollars, and the deputy chief of police in the sum of fifteen hundred

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dollars, with sufficient sureties to be approved by the board of police commissioners.

SECTION 12. The board of police commissioners may appoint such employees as it may deem necessary and such employees shall be subject to the provisions of sections eight, nine and ten of this ordinance.

SECTION 13. The salaries and wages of the members of the police department shall be as follows:—

chief of police	$3,000.00 per year
deputy chief of police	2,100.00 per year
captain of detectives	1,800.00 per year
captain	1,700.00 per year
detective lieutenant	1,500.00 per year
lieutenant	1,500.00 per year
detective sergeant	1,400.00 per year
sergeant	1,400.00 per year
patrolman, grade A	3.56 per day
patrolman, grade B	3.28 per day
patrolman, grade C	3.00 per day
reserve policeman	2.75 per day
special policeman	2.75 per day
superintendent police signal system	500.00 per year
matron	750.00 per year

As additional salary and wages a police officer shall be indemnified to an amount not more than the amount which shall be recommended by the board of police commissioners for expenses or damages sustained by him while acting as police officer.

SECTION 14. The city treasurer shall pay to the chief of police annually, upon his request, the sum of six hundred dollars, and charge the same to the appropriation for the police department for the then current fiscal year. Said money shall be kept by said chief of police apart from his own funds, and as money belonging to the city, and shall be used by him only for the payment of such traveling expenses and other necessary expenses of members of the department as any emergency may call for, and which must be met at once and without delay incidental to the approval and payment of bills as provided by ordinance. Bills or accounts of moneys so expended shall be rendered to the board of police commissioners and upon the approval thereof the amounts thereof shall be paid by the city treasurer from the appropriation for the police department for the then current fiscal year to the chief of police to make good the deficiency

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in such emergency fund. Said chief of police shall at the end of the fiscal year account for and pay over to said treasurer said sum of six hundred dollars.

SECTION 15. The superintendent of the police signal system shall have supervision and general charge and care of the apparatus, machinery and fixtures of the police signal telegraph system and shall see that they are kept in good working order, for which he shall be responsible to the board of police commissioners. He shall keep an accurate account of all extra labor and material needed for the proper maintenance of said system and all the expense of said maintenance shall be charged to the account of said police department. He shall, annually, in the month of December, prepare and submit to the board of police commissioners an estimate of the amount of money necessary for the proper care, maintenance, and extension of the police signal system for the then current fiscal year.

SECTION 16. All ordinances or parts of ordinances inconsistent herewith are hereby repealed, but the provisions of this ordinance so far as they are the same as those of existing ordinances shall be construed as continuations thereof and not as new ordinances, and acts done in compliance with said existing ordinances shall have the same force and effect as if they had been done hereunder.

Approved, September 17, 1917.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER X.

AN ORDINANCE

ACCEPTING CHAPTER 255 OF THE SPECIAL ACTS OF 1917 OF THE LEGISLATURE OF THIS COMMONWEALTH ENTITLED "AN ACT TO EXTEND THE PROVISIONS OF THE CIVIL SERVICE LAWS TO THE POSITION OF CARETAKER OF PUBLIC PLAYGROUNDS IN THE CITY OF SPRINGFIELD."

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Chapter 255 of the Special Acts of 1917 of the Legislature of this Commonwealth, entitled "An Act to Extend the Provisions of the Civil Service Laws to the Position of Caretaker of Public Playgrounds in the City of Springfield," is hereby accepted, the said Act being as follows:—

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SECTION 1. All appointments to the position of caretaker of public playgrounds in the Park Department of the City of Springfield shall hereafter be made in accordance with the civil service laws and rules; but no person now holding the said position shall be required to take a civil service examination in order to retain the same.

SECTION 2. This Act shall take effect upon its acceptance by the city council of said city, with the approval of the mayor; provided that such acceptance and approval occur on or before December 31st in the current year.

Approved November 19, 1917.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XI.

AN ORDINANCE

AMENDING CHAPTER 7 OF THE ORDINANCES OF 1916, BEING "AN ORDINANCE RELATIVE TO THE LICENSING AND REGULATING OF CERTAIN MOTOR VEHICLES" AND APPROVED OCTOBER 23, 1916, AS AMENDED BY CHAPTER 8 OF THE ORDINANCES OF 1917, APPROVED AUGUST 21, 1917.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 23 of Chapter 7 of the ordinances of 1916 is hereby amended by striking out the last sentence thereof and inserting in place thereof the following sentence: "Nor shall any person be permitted to sit upon any fender, dash, top or door of any such vehicle nor shall more than one person be permitted to ride upon either running board," so that said section as so amended shall read as follows:—

SECTION 23. No greater number of passengers shall be carried at any one time in any such motor vehicle so licensed, than the license of such vehicle shall specify, provided that in addition thereto children under seven years of age may be carried therein in arms or seated on the laps of parents or adult person accompanying them, but no passenger with a child in arms or seated on the lap shall be permitted on any front seat of the vehicle. Nor shall any person be permitted to sit upon any fender, dash, top or door of any such vehicle

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nor shall more than one person be permitted to ride upon either running board.

Approved December 17, 1917.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XII.

AN ORDINANCE

ESTABLISHING THE OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. There is hereby established in the city of Springfield the office of superintendent of public buildings.

Said superintendent shall be elected by the city council by joint ballot in convention as soon as may be convenient after this ordinance becomes effective and thereafter within 60 days after the first Monday in September, 1920, and every third year thereafter.

He shall be removable by the city council at its pleasure and unless so removed shall hold office for three years from the first Monday in January following his election and until his successor is chosen and qualified. A vacancy may be filled at any time for an unexpired term.

Said superintendent shall receive such compensation for his services as the city council shall from time to time determine.

SECTION 2. Said superintendent on behalf of the city and subject to the direction of the committee on city property shall have charge and control of the buildings and grounds of the municipal group, the public sanitary adjacent thereto, the municipal heating plant, and the school department store-house and shop on Boylston street, the city's rifle range in Chicopee, and all other buildings of a like nature which hereafter shall be acquired, together with the grounds about them. He shall also have charge of all the schoolhouses in the city and all of the property contained in and connected with the same, subject however to the direction of the school committee in respect to the use and occupation of the schoolhouses and of such property.

SECTION 3. Chapters one and two of the ordinances of 1913 and all other ordinances or parts of ordinances not consistent herewith are hereby repealed.

Approved December 31, 1917.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER XIII.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE SUPERINTENDENT OF PUBLIC BUILDINGS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salary of the superintendent of public buildings is hereby established at twenty-eight hundred dollars per annum.

Approved December 31, 1917.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XIV.

AN ORDINANCE

ESTABLISHING THE OFFICE OF MESSENGER.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. As soon after the passage of this ordinance as may be practicable, there shall be elected by vote of the two branches of the city council in convention a messenger who shall hold his office until the first Monday in April 1919 unless sooner removed by vote of the city council. In 1919 and annually thereafter on the first Monday of February, or within sixty days thereafter there shall be elected in convention of the two branches of the city council a messenger who shall hold his office for one year from the first Monday in April of the year in which he is chosen, and until another is chosen and qualified in his stead, unless sooner removed by vote of the city council.

SECTION 2. The messenger shall receive, deliver and execute all notifications, summonses and precepts, the service of which is not otherwise provided for, issued by the mayor, the president of the common council, the city council or either branch thereof, or by any committee of the same, and make due return thereof. He shall notify all committees of their meetings upon request of the city clerk, clerk of the common council, or the chairman of such committee. He shall receive and deliver all notifications to officers elected or appointed by the city council, or either branch thereof, and to all officers elected at ward meetings, except as otherwise provided by law or ordinance.

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SECTION 3. Subject to the direction and control of the superintendent of public buildings the messenger shall prepare and arrange the rooms in which the city council shall hold its sessions, or in which any committee of either branch shall hold its meetings, and see that the same are properly and seasonably warmed and lighted. He shall attend upon both branches of the city council while in session and upon either branch when in session separately, and, under direction of the proper committee or officers, provide such things as may be necessary for their accommodation, or for the accommodation of committees while in session.

Approved December 31, 1917.

Attest: E. A. NEWELL, *City Clerk.*

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TAXES.

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TAXES.

TAXES—1905—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	$98,960 00		
Amount of County tax committed,	74,932 77		
Amount of Bank tax committed,	39,209 52		
Amount of City tax committed,	1,109,312 49		
Amount of Military Armory tax committed,	6,728 38		
Amount of Grade Crossing tax committed,	1,177 05		
Amount of Excise tax Springfield Street Railway committed,	12,132 26	—	$1,342,452 47
Received of Collector as follows: —			
State tax,	$98,960 00		
County tax,	74,932 77		
Bank tax,	39,209 52		
On account of City tax,	1,096,511 34		
Military Armory tax,	6,728 38		
Grade Crossing tax,	1,177 05		
Excise tax Springfield Street Railway,	12,132 26		
Abatements,	12,801 15	—	$1,342,452 47

Rate—Fifteen dollars and forty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1906—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$86,590 00	
Amount of County tax committed,	89,968 08	
Amount of Bank tax committed,	26,876 53	
Amount carried forward,	$203,434 61	

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Amount brought forward,	$203,434 61		
Amount of City tax committed,	1,157,038 64		
Amount of Military Armory tax committed,	6,611 06		
Amount of Grade Crossing tax committed,	1,111 66		
Amount of Excise tax Springfield Street Railway committed,	12,856 06		
Amount of Special Census tax committed,	820 78	—	$1,381,872 81
Received of Collector as follows: —			
State tax,	$86,590 00		
County tax,	89,968 08		
Bank tax,	26,876 53		
On account of City tax,	1,145,794 34		
Military Armory tax,	6,611 06		
Grade Crossing tax,	1,111 66		
Excise tax Springfield Street Railway,	12,856 06		
Special Census,	820 78		
Abatements,	11,244 30	—	$1,381,872 81

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1907—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$103,280 00		
Amount of County tax committed,	92,566 11		
Amount of Bank tax committed,	26,073 69		
Amount of City tax committed,	1,230,789 52		
Amount of Military Armory tax committed,	6,430 43		
Amount of Excise tax Springfield Street Railway committed,	13,646 75	—	$1,472,786 50
Received of Collector as follows: —			
State tax,	$103,280 00		
County tax,	92,566 11		
Bank tax,	26,073 69		
On account of City tax,	1,220,963 31		
Military Armory tax,	6,430 43		
Excise tax Springfield Street Railway,	13,646 75		
Abatements,	9,826 21	—	$1,472,786 25

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

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TAXES—1908—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$142,010 00		
Amount of County tax committed,	92,465 60		
Amount of Bank tax committed,	26,346 46		
Amount of City tax committed,	1,326,257 02		
Amount of Military Armory tax committed,	922 50		
Amount of Excise tax Springfield Street Railway committed,	13,608 62		
Amount for abating nuisance Kibbe Hollow tax committed,	785 76	—	$1,602,395 96
Received of Collector as follows:—			
State tax,	$142,010 00		
County tax,	92,465 60		
Bank tax,	26,346 46		
On account of City tax,	1,313,145 20		
Military Armory tax,	922 50		
Excise tax Springfield Street Railway,	13,608 62		
Abatements,	13,463 23		
On account of abating nuisance Kibbe Hollow,	434 35	—	$1,602,395 96

Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1909—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$116,190 00		
Amount of County tax committed,	92,465 60		
Amount of Bank tax committed,	25,127 59		
Amount of City tax committed,	1,442,009 18		
Amount of Excise tax Springfield Street Railway committed,	14,214 26		
Amount for abating nuisance Kibbe Hollow tax committed,	785 76	—	$1,690,792 39
Received of Collector as follows:—			
State tax,	$116,190 00		
County tax,	92,465 60		
Bank tax,	25,127 59		
On account of City tax,	1,426,950 22		
Amount carried forward,	$1,660,733 91		

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Amount brought forward,	$1,660,733	41	
Excise tax Springfield Street Railway,	14,214	26	
Abatements,	15,349	67	
Abatement on account of abating nuisance Kibbe Hollow,	495	05—	$1,690,792 39

Rate—Fourteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1910—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$158,345	00	
Amount of County tax committed,	95,413	62	
Amount of Bank tax committed,	29,595	64	
Amount of City tax committed,	1,685,106	13	
Amount of Excise tax Springfield Street Railway committed,	14,671	37—	$1,983,131 76
Received of Collector as follows:—			
State tax,	$158,345	00	
County tax,	95,413	62	
Bank tax,	29,595	64	
On account of City tax,	1,665,597	37	
Excise tax Springfield Street Railway,	14,671	37	
Abatements,	19,508	76—	$1,983,131 76

Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1911—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$158,345	00	
Amount of County tax committed,	107,658	85	
Amount of Bank tax committed,	33,125	83	
Amount of City tax committed,	1,907,444	59	
Amount of Excise tax Springfield Street Railway committed,	13,441	88—	$2,220,216 15

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Received of Collector as follows:—

State tax,	$158,345 00	
County tax,	107,858 85	
Bank tax,	33,125 83	
On account of City tax,	1,892,321 38	
Excise tax, Springfield Street Railway,	13,441 88	
Abatements,	15,123 21—	$2,220,216 15

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1912—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,		$182,027 18	
	$179,937 50		
State System of accounts,	2,089 68		
Amount of County tax committed,		105,266 09	
Amount of Bank tax committed,		28,134 82	
Amount of City tax committed,		2,130,292 54	
Amount of Excise tax, Springfield Street Railway, committed,		14,584 19—	$2,460,304 82

Received of Collector as follows:—

State tax,	$182,027 18	
County tax,	105,266 09	
Bank tax,	28,134 82	
On account of City tax,	2,103,191 75	
Excise tax, Springfield Street Railway,	14,584 19	
Abatements,	27,100 79—	$2,460,304 82

Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, WILLIAM C. MARSH, *City Auditor.*

TAXES—1913—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$255,920 00	
Amount of County tax committed,	116,422 70	
Amount of Bank tax committed,	25,108 66	
Amount of City tax committed,	2,383,606 98	
Amount of Excise tax, Springfield Street Railway committed,	16,446 00—	$2,797,504 34

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Received of Collector as follows:—			
State tax,	$255,920	00	
County tax,	116,422	70	
Bank tax,	25,108	66	
Excise tax, Springfield Street Railway,	16,446	00	
On account of City tax,	2,354,763	81	
Abatements,	28,843	17—	$2,797,504 84

Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1914—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$279,912	50	
Amount of County tax committed,	115,373	85	
Amount of Bank tax committed,	26,846	80	
Amount of Excise tax, Springfield Street Railway, committed,	16,673	85	
Amount of City tax committed,	2,659,381	98—	$3,098,188 98
Received of Collector as follows:—			
State tax,	$279,912	50	
County tax,	115,373	85	
Bank tax,	26,846	80	
Excise tax, Springfield Street Railway,	16,673	85	
On account of City tax,	2,624,423	81	
Abatements,	34,958	17—	$3,098,188 98

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1915—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$311,902	50	
Amount of County tax committed,	123,240	23	
Amount of Bank tax committed,	23,673	83	
Amount of Excise tax, Springfield Street Railway, committed,	16,494	16	
Amount of City tax committed,	3,093,478	76—	$3,568,789 48

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Received of Collector as follows:—

State tax,	$311,902 50	
County tax,	123,240 23	
Bank tax,	23,673 83	
Excise tax, Springfield Street Railway,	16,494 16	
On account of City tax,	3,057,450 22	
Abatements,	36,028 54—	$3,568,789 48

Rate—Eighteen dollars and twenty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1916—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$296,240 00	
Amount of County tax committed,	150,706 77	
Amount of Bank tax committed,	18,131 04	
Amount of Excise tax, Springfield Str et Railway, committed,	17,999 27	
Amount of City tax committed,	3,214,155 45—	$3,697,232 53

Received of Collector as follows:—

State tax,	$296,240 00	
County tax,	150,706 77	
Bank tax,	18,131 04	
Excise tax, Springfield Street Railway,	17,999 27	
On account of City tax,	3,130,914 39	
Abatements,	82,321 94	
Uncollected taxes,	919 12—	$3,697,232 53

Rate—Seventeen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1917—CHARLES A. FRAZER, COLLECTOR.

Committed to City Collector:—

For State tax,	$409,750 00	
" County tax,	176,227 17	
" Bank tax,	17,321 89	
" Excise tax, Springfield Street Railway Company,	19,426 53	
" City tax,	2,982,959 87—	$3,605,685 46

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Accounted for as follows:—

Received by City Collector,	$2,726,873 72	
Abated by Board of Assessors,	20,202 55	
Amount Uncollected,	858,609 19—	$3,605,685 46

Rate—Seventeen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

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ASSESSORS' VALUATION OF PROPERTY.

1852—Total valuation,		$5,180,210 00
1853—Total valuation,		5,509,660 00
1854—Total valuation,		7,762,250 00
1855—Total valuation,		8,409,870 00
1856—Total valuation,		8,284,060 00
1857—Total valuation,		8,558,720 00
1858—Real estate,	$5,702,040 00	
Personal estate,	2,679,100 00	8,381,140 00
1859—Real estate,	5,794,590 00	
Personal estate,	2,845,640 00	8,640,230 00
1860—Real estate,	5,962,480 00	
Personal estate,	2,955,800 00	8,918,280 00
1861—Real estate,	6,417,660 00	
Personal estate,	3,067,920 00	9,485,580 00
1862—Real estate,	6,719,500 00	
Personal estate,	3,039,390 00	9,758,890 00
1863—Real estate,	7,211,320 00	
Personal estate,	3,744,790 00	10,956,110 00
1864—Real estate,	8,536,490 00	
Personal estate,	2,871,430 00	11,407,920 00
1865—Real estate,	9,007,850 00	
Personal estate,	3,784,910 00	12,792,760 00
1866—Real estate,	10,241,540 00	
Personal estate,	4,755,480 00	14,997,020 00
1867—Real estate,	12,758,420 00	
Personal estate,	5,110,810 00	17,869,230 00
1868—Real estate,	15,125,520 00	
Personal estate,	5,322,640 00	20,448,160 00
1869—Real estate,	17,665,610 00	
Personal estate,	5,901,570 00	23,567,180 00
1870—Real estate,	18,443,990 00	
Personal estate,	6,070,070 00	24,514,060 00
1871—Real estate,	20,962,100 00	
Personal estate,	6,589,870 00	27,551,970 00

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1872—Real estate,	$26,098,920 00	
Personal estate,	7,512,230 00	$33,611,150 00
1873—Real estate,	29,380,520 00	
Personal estate,	8,060,300 00	37,440,820 00
1874—Real estate,	30,489,850 00	
Personal estate,	7,846,928 00	38,336,778 00
1875—Real estate,	31,125,660 00	
Personal estate,	8,398,912 40	39,524,572 40
1876—Real estate,	27,647,560 00	
Personal estate,	7,461,896 86	35,109,456 86
1877—Real estate,	23,737,000 00	
Personal estate,	6,955,776 66	30,692,776 66
1878—Real estate,	22,746,330 00	
Personal estate,	6,637,845 72	29,384,175 72
1879—Real estate,	22,211,230 00	
Personal estate,	7,230,094 00	29,441,324 00
1880—Real estate,	22,856,020 00	
Personal estate,	8,292,655 00	31,148,675 00
1881—Real estate,	23,795,920 00	
Personal estate,	8,935,850 00	32,731,770 00
1882—Real estate,	25,084,420 00	
Personal estate,	9,198,258 00	34,282,678 00
1883—Real estate,	25,676,800 00	
Personal estate,	9,260,459 00	34,937,259 00
1884—Real estate,	26,301,150 00	
Personal estate,	8,792,666 00	35,093,816 00
1885—Real estate,	26,969,800 00	
Personal estate,	8,865,928 00	35,835,728 00
1886—Real estate,	27,638,760 00	
Personal estate,	9,143,442 00	36,782,202 00
1887—Real estate,	28,566,280 00	
Personal estate,	9,416,384 17	37,982,664 17
1888—Real estate,	30,323,140 00	
Personal estate,	9,540,115 14	39,863,255 14
1889—Real estate,	32,000,680 00	
Personal estate,	10,072,895 00	42,073,575 00
1890—Real estate,	33,795,860 00	
Personal estate,	10,697,773 00	44,493,633 00
1891—Real estate,	37,219,490 00	
Personal estate,	11,110,144 00	48,329,634 00

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1892—Real estate,	$39,444,580 00	
Personal estate,	11,336,407 00	$50,780,987 00
1893—Real estate,	42,975,820 00	
Personal estate,	12,264,099 00	55,239,919 00
1894—Real estate,	44,083,900 00	
Personal estate,	12,365,525 00	56,449,425 00
1895—Real estate,	46,063,460 00	
Personal estate,	12,969,681 00	59,033,141 00
1896—Real estate,	48,344,280 00	
Personal estate,	13,071,811 00	61,416,091 00
1897—Real estate,	50,344,460 00	
Personal estate,	14,553,919 00	64,898,379 00
1898—Real estate,	52,022,570 00	
Personal estate,	13,677,143 00	65,699,713 00
1899—Real estate,	53,400,770 00	
Personal estate,	16,469,077 00	69,869,847 00
1900—Real estate,	55,676,320 00	
Personal estate,	16,682,161 00	72,358,481 00
1901—Real estate,	57,394,710 00	
Personal estate,	16,944,217 00	74,338,927 00
1902—Real estate,	58,411,160 00	
Personal estate,	16,424,905 40	74,836,065 40
1903—Real estate,	60,787,130 00	
Personal estate,	16,420,768 80	77,207,898 80
1904—Real estate,	62,145,950 00	
Personal estate,	16,722,107 80	78,868,057 80
1905—Real estate,	63,273,330 00	
Personal estate,	17,631,146 80	80,904,476 80
1906—Real estate,	68,239,990 00	
Personal estate,	18,265,191 00	86,505,181 00
1907—Real estate,	73,319,860 00	
Personal estate,	19,058,764 00	92,378,624 00
1908—Real estate,	76,965,520 00	
Personal estate,	20,132,788 00	97,098,308 00
1909—Real estate,	85,403,490 00	
Personal estate,	22,472,290 00	107,875,780 00
1910—Real estate,	94,984,660 00	
Personal estate,	24,097,118 00	119,081,778 00

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1911—Real estate,	$102,393,230 00	
Personal estate,	25,659,804 00	$128,053,034 00
1912—Real estate,	123,602,570 00	
Personal estate	25,927,780 00	149,530,350 00
1913—Real estate,	139,348,180 00	
Personal estate,	31,326,534 00	170,674,714 00
1914—Real estate,	147,180,360 00	
Personal estate,	32,948,691 00	180,129,051 00
1915—Real estate,	155,949,860 00	
Personal estate,	33,594,430 00	189,544,290 00
1916—Real estate,	162,945,320 00	
Personal estate,	39,004,692 00	201,950,012 00
1917—Real estate,	171,248,770 00	
Personal estate,	25,185,190 00	196,433,960 00

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CITY OFFICERS.

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CITY OFFICERS

CITY OFFICERS FOR 1852.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Eliphalet Trask; Ward Three, E. D. Beach; Ward Four, George Dwight; Ward Five, Albert Morgan; Ward Six, Charles G. Rice; Ward Seven, Oliver B. Bannon; Ward Eight, F. A. Barton.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris; Ward One, J. B. M. Stebbins, Eleazer Ripley, John V. Jones; Ward Two, W. C. Sturtevant, Francis Bates, Henry Fuller, Jr.; Ward Three, Charles Merriam, Willis Phelps, Cicero Simons; Ward Four, Henry Morris, Alexander H. Avery, Benjamin F. Warner; Ward Five, William Hitchcock, Hiram Q. Sanderson, Nathaniel Cate; Ward Six, Henry Adams; Ward Seven, Ezra Kimberly; Ward Eight, Rodney Holt.

CLERK—Alanson Hawley.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1853.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, John B. Stebbins; Ward Two, Eliphalet Trask; Ward Three, Willis Phelps; Ward Four, Henry Vose; Ward Five, Titus Amadon; Ward Six, Drayton Perkins; Ward Seven, Joseph N. Sollace; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris (resigned May 16). William Stowe; Ward One, Daniel Hitchcock, William Pynchon, Addison Day; Ward Two, Joseph C. Pynchon, Orrin Baker, E. W. Bond; Ward Three, Lombard Dale, T. M. Walker, William Stowe; Ward Four, Henry Morris, Alexander H. Avery, Edmund Palmer; Ward Five, Nathaniel Cate, William Dickinson, Daniel Collins; Ward Six, Henry Adams; Ward Seven, Ezra Kimberly; Ward Eight, William S. Barker.

CLERK—Alanson Hawley (resigned March 7), Samuel O. Gay.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1854.

MAYOR—PHILOS B. TYLER.

ALDERMEN—Ward One, Wilson Eddy; Ward Two, Eliphalet Trask; Ward Three, Elkanah Barton; Ward Four, William L. Washburn; Ward Five, Edward F. Moseley; Ward Six, Roderick Lombard; Ward Seven, Joseph Lombard; Ward Eight, Rodney Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Samuel S. Day; Ward One, Asa Clark, Samuel S. Day, Thomas W. Wason; Ward Two, George H. Roberts, Henry A. Robinson, Roderick Ashley; Ward Three, Philo F. Wilcox, Lombard Dale, Frederick H. Harris; Ward Four, Daniel L. Harris, Tilly Haynes, Joseph B. Hopkins; Ward Five, Daniel Collins, G. W. Harrison, A. H. Clark; Ward Six, Edwin S. Hall; Ward Seven, Harris B. Johnson; Ward Eight, Horace Pease.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

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CITY OFFICERS FOR 1855.

MAYOR—ELIPHALET TRASK.

ALDERMEN—Ward One, James M. Blanchard; Ward Two, W. C. Sturtevant; Ward Three, David Smith; Ward Four, Daniel Reynolds; Ward Five, William E. Montague; Ward Six, Henry Adams; Ward Seven, James P. Chapman; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John M. Stebbins; Ward One, E. B. Haskell, John M. Stebbins, Stephen Morse; Ward Two, O. W. Wilcox, John Hooker, 3d, D. H. Brigham; Ward Three, Francis S. Graves, Rufus Elmer, E. W. Dickinson; Ward Four, Abel B. Howe, John W. Hunt, Jeremiah R. Cadwell; Ward Five, Nathaniel Howard, S. S. Holmes, E. F. Moseley; Ward Six, J. G. Capron; Ward Seven, Luther S. Lewis; Ward Eight, Samuel Webber,

CLERK—Thomas Chubbuck.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1856.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Edmund Freeman; Ward Four, Stephen C. Bemis; Ward Five, Thomas H. Allen; Ward Six, Henry Alexander, Jr.; Ward Seven, Henry Reynolds; Ward Eight, Samuel Webber.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, James Kirkman; Ward One, Charles O. Russell, Chauncey L. Covell, Hervey Hills; Ward Two, O. W. Wilcox, Henry A. Chapin, Dexter H. Brigham; Ward Three, Dr. Nathan Adams, Charles L. Shaw, George Whitney; Ward Four, James Kirkham, George Walker, John W. Hunt; Ward Five, Otis A. Seamans, E. F. Moseley, Nelson Tyler; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, Milton Foster.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1857.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, George Walker; Ward One, Charles O. Russell, Chauncey L. Covell, James Stebbins; Ward Two, Erastus Hayes, Lyman King, Francis B. Bacon; Ward Three, Marvin Lincoln, Henry Avery, John R. Hixon; Ward Four, George Walker, Samuel Leonard, William Birnie; Ward Five, Charles Woodman, Luther Upton, George A. Otis; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, George A. Cooley.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

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CITY OFFICERS FOR 1858.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr. (resigned), E. A. Fuller.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John R. Hixon; Ward One, Wilson Eddy, William Pynchon, William L. Smith; Ward Two, Randolph E. Ladd, Ambrose N. Merrick, Charles B. Trask; Ward Three, John R. Hixon, Henry A. Chapin, Gurdon Bill; Ward Four, Samuel Leonard, John W. Hunt, R. G. Shumway; Ward Five, Charles Woodman, George Swetland, John Brooks; Ward Six, Elbridge Barton; Ward Seven, Joseph Wheelock, Jr.; Ward Eight, Erastus King.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1859.

MAYOR—WILLIAM B. CALHOUN.

ALDERMEN—Ward One, Chauncey L. Covell; Ward Two, Roger S. Moore; Ward Three, Edmund Freeman; Ward Four, Daniel L. Harris; Ward Five, William Hitchcock; Ward Six, J. G. Capron; Ward Seven, Horace Smith; Ward Eight, George W. Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, A. N. Merrick (resigned in May), Samuel Leonard; Ward One, Joshua M. Harrington, Justin M. Cooley, John V. Jones; Ward Two, George H. Roberts, Lewis H. Taylor, Gurdon C. Judson; Ward Three, A. N. Merrick, Daniel Gay, Hosea C. Lombard; Ward Four, Samuel Leonard, Alfred Rowe, Reuben T. Safford; Ward Five, Theodore Bishop, Walter Maynard, Walter North; Ward Six, Isaac D. Gibbons; Ward Seven, Ransley Hall; Ward Eight, Warren L. Shaw.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1860.

MAYOR—DANIEL L. HARRIS.

ALDERMEN—Ward One, Edmund B. Haskell; Ward Two, Erastus Hayes; Ward Three, Franklin Chamberlain; Ward Four, John W. Hunt; Ward Five, William Hitchcock; Ward Six, John G. Capron; Ward Seven, William Foster; Ward Eight, George W. Holt.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Joshua M. Harrington, H. S. Noyes, J. H. Demond; Ward Two, Lewis H. Taylor, George R. Townsley, Charles A. Winchester; Ward Three, William L. Wilcox, John Hamilton, Clark W. Bryan; Ward Four, N. A. Leonard, William Birnie, Alfred Rowe; Ward Five, William Higley, A. F. Strong, Charles Woodman; Ward Six, Robert Crossett; Ward Seven, Orrin Lombard; Ward Eight, Andrew J. Plumer.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

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CITY OFFICERS FOR 1861.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, Ephraim W. Bond; Ward Three, H. N. Case; Ward Four, Nathaniel Howard; Ward Five, Charles Woodman; Ward Six, Amos Call; Ward Seven, William Smith; Ward Eight, A. J. Plumer.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, H. J. Chapin, J. M. Cooley, J. H. Demond; Ward Two, Lewis H. Taylor, D. H. Brigham, F. B. Bacon; Ward Three, William L. Wilcox, John Hamilton, James M. Skiff; Ward Four, N. A. Leonard, John W. Bliss, Alfred Rowe; Ward Five, William Higley, Otis A. Seamans, A. W. Allen; Ward Six, Aaron C. Barton; Ward Seven, Henry Reynolds; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

CITY OFFICERS FOR 1862.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, E. W. Bond; Ward Three, H. N. Case; Ward Four, T. W. Wason; Ward Five, Horace Kibbe; Ward Six, Horace Smith; Ward Seven, William Smith; Ward Eight, H. S. Evans.

CLERK—S. B. Spooner, Jr.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Horace J. Chapin, L. O. Hanson, L. J. Powers; Ward Two, Sylvester Day, Tim Henry, Eli H. Patch; Ward Three, James M. Skiff, J. E. Taylor, A. F. Jennings; Ward Four, N. A. Leonard, Alfred Rowe, T. M. Walker; Ward Five, P. V. B. Havens, George K. Jacobs, George K. Charter; Ward Six, Aaron C. Barton; Ward Seven Ezekiel Keith; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Samuel B. Spooner (resigned September 30), A. T. Folsom.

CITY OFFICERS FOR 1863.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Justin M. Cooley; Ward Two, William Patton; Ward Three, William K. Baker; Ward Four, Daniel L. Harris; Ward Five, William Bodurtha; Ward Six, Horace Smith; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, N. W. Talcott, George S. Haskell, Luther Clark; Ward Two, O. H. Greenleaf, G. R. Townsley, John West; Ward Three, Aaron G. Lord, James M. Skiff, Francis S. Graves; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Cheney Bigelow, George K. Charter (resigned), Charles Phelps, Orlando Chapin (resigned), William Collins; Ward Six, J. G. Chase; Ward Seven, C. P. L. Warner; Ward Eight, Hiram Warner.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1864.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Norman W. Talcott; Ward Two, William Patton; Ward Three, Albert D. Briggs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Harvey E. Moseley.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Henry S. Hyde, John Mulligan, Charles H. Allen; Ward Two, O. H. Greenleaf, G. R. Townsley, J. F. Tannatt; Ward Three, Charles A. Winchester, W. H. Smith, A. N. Merrick; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Charles Phelps, William Collins, S. W. Porter; Ward Six, L. H. Taylor; Ward Seven, Peter Valentine; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1865.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, Henry S. Hyde; Ward Two, George R. Townsley; Ward Three, Otis Childs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, John Mulligan, W. H. Allis, H. S. Noyes; Ward Two, Gideon Wells, John Olmsted, J. F. Tannatt; Ward Three, William H. Smith, J. F. Tapley, H. N. Tinkham; Ward Four, N. A. Leonard, Henry S. Lee, S. J. Hall; Ward Five, Charles Phelps, S. W. Porter, J. Q. A. Sexton; Ward Six, Gustavus D. Tapley; Ward Seven, Rawson Hathaway; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1866.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, William Pynchon; Ward Two, D. H. Brigham; Ward Three, Tim Henry; Ward Four, F. H. Harris; Ward Five, G. W. Harrison; Ward Six, W. H. Wilkinson; Ward Seven, John G. Taylor (died), Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. H. Demond, Warren Emerson, J. C. McIntosh; Ward Two, Gideon Wells, H. M. Morehouse, George Dwight, Jr.; Ward Three, H. N. Tinkham, William H. Smith, Joseph H. Damon; Ward Four, D. B. Wesson, William L. Smith, W. S. Marsh; Ward Five, Charles Phelps, S. W. Porter, Charles Chapman; Ward Six, Gustavus D. Tapley; Ward Seven, John M. Meggett; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1867.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, F. H. Harris; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. C. McIntosh, Warren Emerson, J. H. Demond; Ward Two, H. M. Morehouse, C. S. Hurlbut, L. A. Tifft; Ward Three, Charles Marsh, H. K. W. Dickinson, P. S. Bailey; Ward Four, W. L. Smith, W. S. Marsh, L. J. Powers; Ward Five, Charles Chapman, A. H. Clark, J. S. Brown; Ward Six, Charles A. Call; Ward Seven, E. W. Clark; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1868.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, W. S. Marsh; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, E. W. Clark; Ward Eight, Milo Chapin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Warren Emerson, Josiah Bumstead, Roswell Lee; Ward Two, O. H. Greenleaf, Charles R. Ladd, Lewis A. Tifft; Ward Three, E. H. Patch, A. J. McIntosh, William H. Smith; Ward Four, Henry S. Lee, E. G. Norton, M. A. Clyde; Ward Five, Cyrus E. Buckland, Alden Warner, William R. Purple; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1869.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, J. M. Cooley; Ward Two, George Dwight; Ward Three, William H. Smith; Ward Four, W. S. Marsh; Ward Five, Joseph M. Hall; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, Charles J. Goodwin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, George M. Atwater, Josiah Bumstead, John Olmsted; Ward Two, Charles R. Ladd, O. H. Greenleaf, C. C. Smith; Ward Three, A. J. McIntosh, E. H. Patch, J. H. Appleton; Ward Four, Henry S. Lee, E. G. Norton, L. J. Powers; Ward Five, Alden Warner, E. B. Haskell, W. P. Taylor; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1870.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, J. A. Rumrill; Ward Two, Eliphalet Trask; Ward Three, Dr. John Hooker; Ward Four, Willis Phelps; Ward Five, Joseph M. Hall; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Foster.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, A. D. Day, C. B. Holbrook; Ward Two, George Dwight, Jr., James S. Bourke, David Legro; Ward Three, James E. McIntire, George W. Tapley, George S. Lewis; Ward Four, Henry S. Lee, Gurdon Bill, S. R. Phillips; Ward Five, Charles Phelps, William B. Miller, T. B. Wilson; Ward Six, George E. Howard; Ward Seven, John A. Hall; Ward Eight, Alfred S. Packard.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1871.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, Josiah Bumstead; Ward Two, Charles R. Ladd; Ward Three, Lawson Sibley; Ward Four, James M. Thompson; Ward Five, Richard F. Hawkins; Ward Six, Isaac P. Dickinson; Ward Seven, John A. Hall; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, P. W. Brewster, F. J. Donahue; Ward Two, Milton Bradley, Tilly Haynes, R. Warren; Ward Three, B. C. English, S. B. Spooner, N. C. Newell; Ward Four, Henry S. Lee, Henry M. Phillips, E. A. Perkins; Ward Five, T. B. Wilson, J. C. Perry, E. B. Maynard; Ward Six, George E. Howard; Ward Seven, J. W. Lull; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1872.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward Two, Charles R. Ladd; Ward Three, William H. Smith; Ward Four, Emerson Wight; Ward Five, Joseph M. Hall, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, William H. Pinney; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, F. J. Donahue, L. H. Powers, N. W. Fisk; Ward Two, O. H. Greenleaf, George W. Ray, Henry F. Trask; Ward Three, N. C. Newell, Samuel Palmer, George M. Smith; Ward Four, E. A. Perkins, H. M. Phillips, V. N. Taylor; Ward Five, M. P. Knowlton, E. B. Maynard, P. H. M. Brooks; Ward Six, E. A. Newell; Ward Seven, J. W. Lull; Ward Eight, W. L. Converse.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1873.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward One, H. S. Hyde; Ward Two, George W. Ray; Ward Three, E. H. Patch; Ward Four, Emerson Wight; Ward Five, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, L. A. Tifft; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, Florence J. Donahue, Noyes W. Fisk, Albert Holt; Ward Two, O. H. Greenleaf, H. F. Trask, S. C. Warriner; Ward Three, Joseph K. Newell, Charles M. Lee, Charles M. King; Ward Four, Varnum N. Taylor, E. A. Perkins, H. M. Phillips; Ward Five, M. P. Knowlton, J. D. McKnight, W. G. Chamberlain; Ward Six, E. A. Newell; Ward Seven, B. F. Farrar; Ward Eight, John Warriner.

CLERK—John A Hall.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1874.

MAYOR—JOHN M. STEBBINS.

ALDERMEN—Ward One, Albert Holt; Ward Two, Hugh Donnelly; Ward Three, A. J. McIntosh; Ward Four, L. J. Powers; Ward Five, Albert W. Allen; Ward Six, I. P. Dickinson; Ward Seven, J. W. Lull; Ward Eight, Henry C. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, T. B. Wilson; Ward One, D. J. Curtis, Horace Wheeler, James A. Byrnes; Ward Two, L. B. Lillie, M. L. Tourtellotte, P. J. Ryan; Ward Three, B. S. Haskins, Charles A. King, August Sheppert; Ward Four, J. H. Appleton, Homer Foot, Jr., D. J. Marsh; Ward Five, W. G. Chamberlain, T. B. Wilson, Benjamin Hannis; Ward Six, Daniel Schoonmaker; Ward Seven, E. W. Ladd; Ward Eight, John Warriner.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1875.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, Hinsdale Smith; Ward Two, D. H. Brigham; Ward Three, F. H. Fuller; Ward Four, L. J. Powers; Ward Five, W. G. Chamberlain; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Horace Wheeler, James A. Byrnes, N. W. Fisk; Ward Two, S. E. Seymour, H. F. Trask, M. L. Tourtellotte; Ward Three, J. K. Newell, A. J. Plumer, J. K. Winter; Ward Four, Henry S. Lee, D. L. Harris, J. S. Carr; Ward Five, B. S. Haskins, Benjamin Hannis, E. S. Stacy; Ward Six, Daniel Schoonmaker; Ward Seven, E. P. Cook; Ward Eight, D. P. Woolson.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1876.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, N. W. Talcott; Ward Two, George Dwight; Ward Three, J. K. Newell; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley; Ward Six, D. L. Swan; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, J. M. Cooley, J. J. Moore; Ward Two, Milton Bradley, H. F. Trask, M. L. Tourtellotte; Ward Three, H. N. Tinkham, J. F. Tapley, Elijah Nichols; Ward Four, W. S. Shurtleff, D. L. Harris, J. S. Carr; Ward Five, H. W. Phelps, Edwin McElwain, E. S. Stacy; Ward Six, R. R. McGregor; Ward Seven, Larkin Newell; Ward Eight, Samuel F. Smith.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1877.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley (resigned), Benj. Hannis; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, N. W. Fisk, L. H. Powers; Ward Two, H. F. Trask, M. L. Tourtellotte, George E. Erink; Ward Three, H. N. Tinkham, Elijah Nichols, George B. Smith; Ward Four, Daniel L. Harris, William S. Shurtleff, J. K. Newell; Ward Five, Edwin McElwain, John A. Hall, A. J. Wright; Ward Six, H. C. Puffer; Ward Seven, E. W. Ladd; Ward Eight, Milo Chapin.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1878.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, John A. Hall; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, A. J. Wright; Ward One, John Mulligan, L. H. Powers, E. Belding; Ward Two, Dr. H. G. Stickney, Dr. A. R. Rice, E. M. Bartlett; Ward Three, Elijah Nichols, George B. Smith, J. R. Smith; Ward Four, W. S. Shurtleff, J. K. Newell, H. A. Gould; Ward Five, A. J. Wright, N. W. Howard, S. L. Hodgdon; Ward Six, George R. Dickinson; Ward Seven, Edwin W. Ladd; Ward Eight, F. M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1879.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, J. R. Smith; Ward One, John Mulligan, E. Belding, J. W. Baldwin; Ward Two, E. H. Phelps, Horace Jacobs, F. A. Judd; Ward Three, J. R. Smith, Elijah Nichols, Frank E. Winter; Ward Four, Henry A. Gould, George B. Holbrook, C. J. Sanderson; Ward Five, N. W. Howard, S. L. Hodgdon, M. J. Chamberlain; Ward Six, E. M. Lombard; Ward Seven; Charles Taylor; Ward Eight, F. M. Bardwell.

CLERK— E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1880.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, S. C. Warriner; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Elijah Belding; Ward One, E. Belding, Ethan C. Robinson, Harlan P. Stone; Ward Two, Fred A. Judd, E. H. Young, E. M. Bartlett; Ward Three, Elijah Nichols, Frank E. Winter, Emory Meekins; Ward Four, George B. Holbrook, Charles J. Sanderson, William H. Haile; Ward Five, Nathaniel W. Howard, Sewall L. Hodgdon, James D. Gill; Ward Six, Edward M. Lombard; Ward Seven, Charles Taylor; Ward Eight, Frank M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1881.

MAYOR—WILLIAM H. HAILE.

ALDERMEN—Ward One, Elijah Belding; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles J. Sanderson; Ward One, Harlan P. Stone, Hoyt E. Howard, Henry J. Beebe; Ward Two, Fred A. Judd, Edwin M. Bartlett, John Lobsitz; Ward Three, George P. Stebbins, Jacob C. Lutz, Simpson Clark; Ward Four, Charles J. Sanderson, William B. Walker, Edmund P. Kendrick; Ward Five, James D. Gill, Henry Dana, James F. Brierly; Ward Six, Albert E. Foth; Ward Seven, William C. Bemis; Ward Eight, George Foster.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1882.

MAYOR—EDWIN W. LADD.

ALDERMEN—Ward One, Henry D. Carroll; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, Davenport L. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Edmund P. Kendrick; Ward One, Harlan P. Stone, Henry J. Beebe, Ethan C. Robinson; Ward Two, Fred A. Judd, Frank M. Bugbee, Frank E. Carpenter; Ward Three, Simpson Clark, Jacob C. Lutz, James D. Parsons; Ward Four, Edmund P. Kendrick, James C. Alden, Edward C. Rogers; Ward Five, Henry Dana, Charles E. Dodge, Charles Fuller; Ward Six, George McGregory; Ward Seven, John S. Sanderson; Ward Eight, Edward D. Chapman.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1883.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, Harlan P. Stone; Ward Two, Fred A. Judd; Ward Four, James Kirkham; Ward Four, James C. Alden; Ward Five, James D. Gill; Ward Six, Charles A. Call; Ward Seven, George Nye; Ward Eight, John S. Sanderson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, E. P. Kendrick; Ward One, Charles McKay, J. F. Callanan, John L. Knight; Ward Two, Frank E. Carpenter, Frank M. Bugbee, James A. Bill, Jr.; Ward Three, Jacob C. Lutz, Simpson Clark, W. F. Cook; Ward Four, Edmund P. Kendrick, Edward C. Rogers. Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, Whiteman T. Steere; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1884.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, George W. Tapley; Ward Five, Henry M. Brewster; Ward Six, Charles A. Call; Ward Seven, George Nye, John S. Sanderson; Ward Eight, Davenport L. Fuller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Edward C. Rogers; Ward One, Henry L. Whitcomb, John L. Knight, Patrick C. O'Connor; Ward Two, Hosea C. Lombard, James A. Bill, Jr., James N. Dodge; Ward Three, Simpson Clark, George F. Clark, James S. Adams; Ward Four, Edward C. Rogers, Charles L. Long, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, J. H. Hendrick; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1885.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, John L. Knight; Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, Daniel P. Crocker; Ward Five, Charles Taylor; Ward Six, Charles A. Call; Ward Seven, John S. Sanderson; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, James F. Bidwell, Henry M. Castle; Ward Two, James A. Bill, Jr., Hosea C. Lombard, Edwin F. Lyford; Ward Three, Edgar C. Whittemore, Richard D. Whitney, John H. Clune; Ward Four, Henry H. Bowman, Charles L. Long, Alfred N. Mayo; Ward Five, George H. Wells, Joel H. Hendrick, James Kimball; Ward Six, Oscar S. Greenleaf; Ward Seven, Richard W. Pinney; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1886.

MAYOR—EDWIN D. METCALF.

ALDERMEN—President, Andrew Y. Beach; Ward One, James F. Bidwell; Ward Two, Andrew Y. Beach; Ward Three, George B. Holbrook; Ward Four, George W. Tapley; Ward Five, Joel H. Hendrick; Ward Six, Walter H. Wesson; Ward Seven, Richard W. Pinney; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, Charles A. Fisk, R. Hale Smith; Ward Two, James A. Bill, Jr., Edwin F. Lyford, Samuel J. Whyte; Ward Three, John H. Clune, Claudius C. Margerum, William F. Callender; Ward Four, Charles L. Long, Henry H. Bowman, Alfred N. Mayo; Ward Five, Thomas S. Stewart, Edward S. Bradford, Marcus M. Kendall; Ward Six, William L. Dickinson; Ward Seven, George W. Hall; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1887.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, James F. Bidwell; Ward One, James F. Bidwell; Ward Two, Frank M. Bugbee; Ward Three, William F. Callender; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry H. Bowman; Ward One, Frederick H. Stebbins, John Dollan, Frank C. Leonard; Ward Two, Frank S. Crane, James A. Bill, Jr., Newrie D. Winter; Ward Three, Claudius C. Margerum, James E. Dunleavy, Howard N. Newell; Ward Four, Henry H. Bowman, William W. More, Charles E. Brown; Ward Five, Edward S. Bradford, Marcus M. Kendall, William C. Newell; Ward Six, Edward J. Flannery; Ward Seven, Landomer E. Pease; Ward Eight, James H. Morley.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1888.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, Frank M. Bugbee; Ward One, John C. McIntosh; Ward Two, Frank M. Bugbee; Ward Three, Lawson Sibley; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinhey; Ward Eight, John Rivers.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Newrie D. Winter; Ward One, Frederick H. Stebbins, Frank C. Leonard, George W. Turner; Ward Two, Newrie D. Winter, Charles C. Parkhurst, Edward F. Tower; Ward Three, James E. Dunleavy, Frederick S. Newman, Leonard Schadt; Ward Four, William W. More, Charles E. Brown, George Leonard; Ward Five, Edward S. Bradford, Marcus M. Kendall, James W. Anderson; Ward Six, Edward J. Flannery; Ward Seven, Charles E. Ladd; Ward Eight, E. A. Grise.

CLERK—Tom Fitzgibbon.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1889.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John C. McIntosh; Ward One, John C. McIntosh; Ward Two, Charles C. Parkhurst; Ward Three, Herbert C. Puffer; Ward Four, John A. Murphy; Ward Five, John McFethries; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orson Moulton.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, George W. Turner, Leroy Z. Cutler, William F. Ray; Ward Two, Waldo R. Forrester, Francke W. Dickinson, Dr. George E. Foster; Ward Three, Leonard Schadt, Jacob G. Lutz, John P. Casman; Ward Four, William W. More, George Leonard, Charles Van Vlack; Ward Five, Milan W. Bull, Ruel R. Nickerson, Thomas H. Benton; Ward Six, Cornelius W. Phillips; Ward Seven, Charles E. Ladd; Ward Eight, Loren W. King.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1890.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, Henry S. Dickinson; Ward One, George W. Turner; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edmund P. Kendrick; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, Leroy Z. Cutler, William F. Ray, Louis C. Hyde; Ward Two, Francke W. Dickinson, George D Fisk, John B. King; Ward Three, John P. Casman, Arthur A. Couch, George J. Seuss; Ward Four, George Leonard, Charles VanVlack, Frederick H. Gillett; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, Cornelius W. Phillips; Ward Seven, Benjamin C. Harvey; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

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CITY OFFICERS FOR 1891.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John A. Murphy; Ward One, Louis C. Hyde; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edward H. Lathrop; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Francke W. Dickinson; Ward One, Henry E. Marsh, John McDonald, Charles H. Mulligan; Ward Two, Francke W. Dickinson, John B. King, Dwight O. Gilmore; Ward Three, George J. Seuss, Charles W. Turk, Jeremiah F. Mahoney; Ward Four, Charles Van Vlack, W. F. Adams, James D. Norton; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1892.

MAYOR—LAWSON SIBLEY.

ALDERMEN—President, Frederick Harris; Ward One, Louis C. Hyde; Ward Two, Frank E. Carpenter; Ward Three, Claudius C. Margerum; Ward Four, Charles M. Mather; Ward Five, Samuel D. Sherwood; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Henry W. Sexton; Ward Two, Edwin A. Carter, Dwight O. Gilmore, James J. Sullivan; Ward Three, George J. Seuss, Jeremiah F. Mahoney, John Sharrocks; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William M. Gray, William A. Harris, Stillman L. Tuttle; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Henry A. Braman.

CLERK—Andrew O. McGarrett, (resigned)—Wm. E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1893.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, George Nye; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Claudius C. Margerum; Ward Four, Henry H. Bowman; Ward Five, George Nye; Ward Six, Nathan D. Bill; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Winford N. Caldwell; Ward Two, Walter G. Morse, Charles W. Perkins, George B. Rathbun; Ward Three, Harry P. Elsey, George F. Sessions, Charles Workheiser; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William A. Harris, Edwin S. Field, Frederick B. Miller; Ward Six, Eugene Young; Ward Seven, William H. Gage; Ward Eight, Merrill E. Streeter.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—E. T. Tifft.

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CITY OFFICERS FOR 1894.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, Henry H. Bowman; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Gustave Remkus; Ward Four, Henry H. Bowman; Ward Five, George A. Russell; Ward Six, Claudius C. Margerum; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George F. Sessions; Ward One, William C. Hayes, Charles L. Burr, George F. Fuller; Ward Two, Maurice P. Cavanaugh, Charles W. Perkins, Frank H. Elwell; Ward Three, Harry P. Elsey, George F. Sessions, Robert A. Grant; Ward Four, Howard A. Gibbs, Robert A. Knight, Paul R. Hawkins; Ward Five, Edwin S. Field, Frederick B. Miller, Fred C. Wright; Ward Six, Edward C. Hamilton; Ward Seven, William S. Bemis; Ward Eight, Philip C. Sullivan.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1895.

MAYOR—CHARLES L. LONG.

ALDERMEN—President, George A. Russell; Ward One, George F. Fuller; Ward Two, Albert E. Foth; Ward Three, Gustave Remkus; Ward Four, Henry L. Gaylord; Ward Five, George A. Russell; Ward Six, Walter P. Goodenough; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Robert A. Knight; Ward One, Charles L. Burr, Lewis D. Robinson, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Frank H. Elwell, Charles D. Rathbun; Ward Three, Adin W. Bangs, Robert A. Grant, George W. D. Upton; Ward Four, Howard A. Gibbs, Paul R. Hawkins, Robert A. Knight; Ward Five, Albert P. Casey, Augustus A. Howard, Frederick B. Miller; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Ladd; Ward Eight, John R. Reed.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1896.

MAYOR—NEWRIE D. WINTER.

ALDERMEN—President, Henry S. Dickinson; Ward One, Charles L. Burr; Ward Two, Dwight O. Gilmore; Ward Three, George J. Seuss; Ward Four, Henry S. Dickinson; Ward Five, Charles H. Parsons; Ward Six, Charles Rogers; Ward Seven, Charles E. Ladd; Ward Eight, Octave A. La Riviere.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Maurice P. Cavanaugh; Ward One, Frank H. Bills, William J. McCann, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Harry C. Collins, Charles T. Winchester; Ward Three, Henry D. Marsh, Frank D. Quilty, George W. D. Upton; Ward Four, Ralph W. Ellis, Zera W. Smith, Fred H. Sturtevant; Ward Five, Frank W. Barker, Augustus A. Howard, Edward R. Lee; Ward Six, Frank D. Kemp; Ward Seven, William W. Bartlett; Ward Eight, Charles O. Churchill.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—E. T. Tifft.

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CITY OFFICERS FOR 1897.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Willard F. Tripp; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Frank W. Barker; Ward One, Orville A. Dodge, Lewis D. Robinson; Ward Two, Luke J. Coogan, Henry D. Shaw, Harry J. Vesper; Ward Three, Charles H. Dunham, Frank H. Elwell; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Frank W. Barker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Dennis Casey, Jr.; Ward Seven, George A. Bacon, William W. Bartlett; Ward Eight, Charles O. Churchill, Alexander C. Methven, Fordis C. Parker.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1898.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Lewis D. Robinson; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fordis C. Parker; Ward One, Orville A. Dodge, Franklin A. Latimer, Jr.; Ward Two, Luke J. Coogan, Matthew R. Mansfield, William A. Strange; Ward Three, Edward T. Davis, Harry H. Parkhurst; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Fordis C. Parker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Samuel M. Jones; Ward Seven, George A. Bacon, Seth J. Buckland; Ward Eight, Albert E. W. Drake, Alexander C. Methven, William F. Mundell.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1899.

MAYOR—DWIGHT O. GILMORE.

ALDERMEN—President, Charles H. Mulligan; Ward One, Franklin A. Latimer, Jr.; Ward Two, Charles H. Mulligan; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp, Edwin B. Woodin; Ward Two, Luke J. Coogan, Patrick J. McCarty, Patrick J. Mitchell; Ward Three, Gottlieb Baer, George W. D. Upton; Ward Four, Lincoln C. Haynes, William W. Tapley; Ward Five, Theodore F. Dwight, Charles A. Wright; Ward Six, Frederick S. Ladd, George Smith; Ward Seven, Albert G. Bennett, Jr., Seth J. Buckland; Ward Eight, Albert E. W. Drake, William F. Mundell, Woodward E. Murkland.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1900.

MAYOR—WILLIAM P. HAYES.

ALDERMEN—President, Edwin A. Blodgett; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Albert G. Bennett, Jr.; Ward One Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, John M. Sullivan; Ward Three, George W. D. Upton, Napoleon L. Byron; Ward Four, William W. Tapley, F. Winthrop Edwards; Ward Five, Theodore F. Dwight, George Nye, Jr.; Ward Six, George Smith, Eugene M. Tinkham; Ward Seven, Albert G. Bennett, Jr., William A. Newton; Ward Eight, William F. Mundell, Oliver E. Hines, Everett E. Stone.

CLERK—William E. Gilbert (resigned), H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1901.

MAYOR—WILLIAM P. HAYES.

ALDERMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Henry D. Marsh; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Frank D. Kemp; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Edward J. Murphy.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Everett E. Stone; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, Patrick J. Delaney; Ward Three, George H. McClean, William W. Warren; Ward Four, F. Winthrop Edwards, Henry P. Norris; Ward Five, Calvin S. Whitcomb, George Nye, Jr.; Ward Six, John J. Hamilton, Eugene M. Tinkham; Ward Seven, Henry G. Chapin, William A. Newton; Ward Eight, Oliver E. Hines, Everett E. Stone, William T. Webster.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1902.

MAYOR—RALPH W. ELLIS.

ALDERMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Napoleon L. Byron; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Paul R. Hawkins; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Everett E. Stone.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, William E. Sanderson; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Sylvester P. Callanan, Patrick J. Delaney, James E. Dunn; Ward Three, Charles F. Bogardus, George H. McClean; Ward Four, Henry P. Norris, Alfred F. H. Pillsbury; Ward Five, George Nye, Jr., Calvin S. Whitcomb; Ward Six, Joseph C. Allen, John J. Hamilton; Ward Seven, Henry G. Chapin, Edward O. Doten; Ward Eight, Henry S. Keyes, Charles S. Potter, William T. Webster.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1903.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Joseph C. Allen; Ward Seven, Oscar S. Greenleaf; Ward Eight, Oliver E. Hines.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Wayland V. James; Ward Two, Patrick J. Delaney, Thomas J. Burke, William H. Grady; Ward Three, George V. Lovely, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Clinton Gowdy, Albert R. Green; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Edward P. Blague.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1904.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Frederick S. Ladd; Ward Seven, Oscar S. Greenleaf; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Henry N. Bowman; Ward Two, Thomas J. Burke, William H. Grady, William F. Houlihan; Ward Three, George H. Hadd, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Albert R. Green, Frank E. Stacy; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Howard O. Buck.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1905.

MAYOR—FRANCKE W. DICKINSON.

ALDERMEN—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Henry P. Norris; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Charles S. Potter; Ward One, Charles Adams, Henry N. Bowman; Ward Two, William F. Houlihan, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, Henry R. Morrissey; Ward Seven, Fred R. Brown, Edwin G. Remkus; Ward Eight, Charles S. Potter, Howard O. Buck, Ralph Waldo Wight.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1906.

MAYOR—FRANCKE W. DICKINSON.

ALDERMEN—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Arthur H. Rogers; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, Charles S. Potter.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Ralph Waldo Wight; Ward One, Charles Adams, Henry N. Bowman; Ward Two, John J. Collins, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, George D. Chamberlain, Henry R. Morrissey; Ward Seven, Fred R. Brown, John Lafayette Scott; Ward Eight, William Addison, Ralph Waldo Wight, Howard O. Buck (resigned).

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1907.

MAYOR—WILLIAM E. SANDERSON.

ALDERMEN—President, Willis A. Ford; Ward One, Henry N. Bowman; Ward Two, Willis A. Ford; Ward Three, Geo. H. Crouss; Ward Four, Arthur H. Rogers; Ward Five, Alfred F. H. Pillsbury; Ward Six, Frederick S. Ladd; Ward Seven, Fred R. Brown; Ward Eight, Charles S. Potter.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Ralph W. Wight; Ward One, Charles Adams, John Henry Curtiss; Ward Two, Geo. C. Connell, Michael J. Scully, John J. Collins; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, Edward P. Butts, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, George D. Chamberlain; Ward Seven, John L. Scott, Edward W. Maynard; Ward Eight, William Addison, Ralph W. Wight, George M. Howe.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1908.

MAYOR—WILLIAM E. SANDERSON.

ALDERMEN—President, Alfred F. H. Pillsbury; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Geo. H. Crouss, deceased—Nelson L. Elmer; Ward Four, Arthur H. Rogers; Ward Five, Alfred F. H. Pillsbury; Ward Six, George D. Chamberlain; Ward Seven, Fred R. Brown; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Frank E. Stacy; Ward One, Charles Adams, John Henry Curtiss; Ward Two, Michael J. Scully, John J. Collins, George C. Connell; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, Edward P. Butts, John A. Denison; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Frank E. Stacy, Harcourt Wesson Bull; Ward Seven, John L. Scott, Edward W. Maynard; Ward Eight, George M. Howe, Jay W. Nickels, John W. Superneaw.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1909.

MAYOR—WILLIAM E. SANDERSON.

ALDERMEN—President, Henry N. Bowman; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Nelson L. Elmer; Ward Four, Arthur H. Rogers; Ward Five, William A. Dodge; Ward Six, George D. Chamberlain; Ward Seven, John L. Scott; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, John A. Denison; Ward One, John Henry Curtiss, Joseph G. Merrick; Ward Two, John J. Collins, James A. Sullivan, John J. Walsh; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, John A. Denison, Everett E. Belding; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Frank E. Stacy, Harcourt Wesson Bull; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Jay W. Nickels.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1910.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, Henry N. Bowman; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Nelson L. Elmer; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, George D. Chamberlain; Ward Seven, John L. Scott; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, Joseph G. Merrick, Wilfred S. Armitage; Ward Two, James A. Sullivan, John J. Walsh, Jeremiah McCarthy; Ward Three, Albert A. Mathews, George W. Streeter; Ward Four, Everett E. Belding, George Marston Leonard; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Matthew H. Farrell, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Miller J. Meeker.

CLERK—H. S. Gilbert (resigned), George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1911.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, Ralph W. Wight; Ward One, Edward S. Goldthwaite; Ward Two, Henry Lasker; Ward Three, H. Goodman Waters; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, Frank E. Stacy; Ward Seven, Charles B. Hitchcock; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, Wilfred S. Armitage, George S. Cook; Ward Two, John P. Cannon, William H. Grady, Jeremiah McCarthy; Ward Three, George W. Streeter, George W. D. Upton; Ward Four, Everett E. Belding, George Marston Leonard; Ward Five, Charles A. Allbe, J. Frank Drake; Ward Six, Matthew H. Farrell, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Miller J. Meeker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1912.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, John A. Denison; Ward One, Edward S. Goldthwaite; Ward Two, Henry Lasker; Ward Three, H. Goodman Waters; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, Frank E. Stacy; Ward Seven, Charles B. Hitchcock; Ward Eight, John G. Maxfield.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, George S. Cook, Charles J. Jefferson; Ward Two, John P. Cannon, William H. Grady, John J. Walsh; Ward Three, George W. Streeter, George W. D. Upton; Ward Four, Robert P. Marsh, George W. Pike; Ward Five, Charles A. Allbe, J. Frank Drake; Ward Six, Henry Martens, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Giles Blague, Charles M. Goodwin, George A. Lanciaux.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1913.

MAYOR—JOHN A. DENISON.

ALDERMEN—President, Henry Lasker; Ward One, George S. Cook; Ward Two, Henry Lasker; Ward Three, George H. McClean; Ward Four, Harry G. Webster; Ward Five, Robert N. Ingersoll; Ward Six, Frank E. Stacy; Ward Seven, Julian R. Albee; Ward Eight, John G. Maxfield.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Louis G. Erickson, Charles J. Jefferson; Ward Two, William H. Grady, John H. Morgan, John J. Walsh; Ward Three, Nelson W. Haskell, George W. Streeter; Ward Four, Robert P. Marsh, George W. Pike; Ward Five, Charles A. Allbe, Harold A. Wheat; Ward Six, Henry Martens, Thomas F. McGlynn (resigned), Patrick W. Russell; Ward Seven, Albert B. Franklin, Jr., Edward T. Broadhurst; Ward Eight, Giles Blague, George A. Lanciaux, William B. Sleigh.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1914.

MAYOR—JOHN A. DENISON.

ALDERMEN—President, Frank E. Stacy; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, George H. McClean; Ward Four, Harry G. Webster; Ward Five, Robert N. Ingersoll; Ward Six, Frank E. Stacy; Ward Seven, Julian R. Albee; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Louis G. Erickson, Lawrence P. Griffin; Ward Two, William H. Grady, John H. Morgan, John R. Doyle; Ward Three, Nelson W. Haskell, Fred A. Morrill; Ward Four, Robert P. Marsh, Albert D. Shaw; Ward Five, William Foster, Harold A. Wheat; Ward Six, Henry Martens, John J. O'Hare; Ward Seven, Albert B. Franklin, Jr., Edward T. Broadhurst; Ward Eight, Clinton W. Cowles, George A. Lanciaux, William B. Sleigh.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1915.

MAYOR—FRANK E. STACY.

ALDERMEN—President, George S. Cook; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Harry G. Webster; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Albert B. Franklin, Jr.; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Emil J. Erard, Lawrence P. Griffin; Ward Two, William H. Grady, William J. Granfield, John R. Doyle; Ward Three, William L. Fuller, Fred A. Morrill; Ward Four, Robert P. Marsh, Albert D. Shaw; Ward Five, Seth H. Barlow, William Foster; Ward Six, Silvio Martinelli, William C. B. Merriam; Ward Seven, Edward T. Broadhurst, Henry H. Caswell; Ward Eight, Clinton W. Cowles, George A. Lanciaux, Albert B. Sanderson.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1916.

MAYOR—FRANK E. STACY.

ALDERMEN—President, George S. Cook; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Robert P. Marsh; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Albert B. Franklin, Jr.; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Albert D. Shaw; Ward One, Emil J. Erard, Lawrence P. Griffin; Ward Two, William H. Grady, William J. Granfield, John R. Doyle; Ward Three, William L. Fuller, Fred A. Morrill; Ward Four, Christopher G. Simpson, Albert D. Shaw; Ward Five, Seth H. Barlow, William Foster; Ward Six, Silvio Martinelli, Ambrose H. Reynolds; Ward Seven, Alfred H. Chapin, Henry H. Caswell; Ward Eight, Clinton W. Cowles, G. Clarence A. Fuller, Albert B. Sanderson.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1917.

MAYOR—FRANK E. STACY.

ALDERMEN—President, Giles Blague; Ward One, John J. Lester; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Robert P. Marsh; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Henry H. Caswell; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Albert D. Shaw; Ward One, C. Burton Gibbs, Lawrence P. Griffin; Ward Two, William H. Grady, John R. Doyle, John A. Fitzgerald; Ward Three, Fred A. Morrill, Harold P. Small; Ward Four, Albert D. Shaw, James P. Smith; Ward Five, Seth H. Barlow, Christopher G. Simpson; Ward Six, Ambrose H. Reynolds, Melvin D. Southworth; Ward Seven, Alfred H. Chapin, Arthur G. Taylor; Ward Eight, G. Clarence A. Fuller, Arthur Alfred Beth, George H. Decker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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